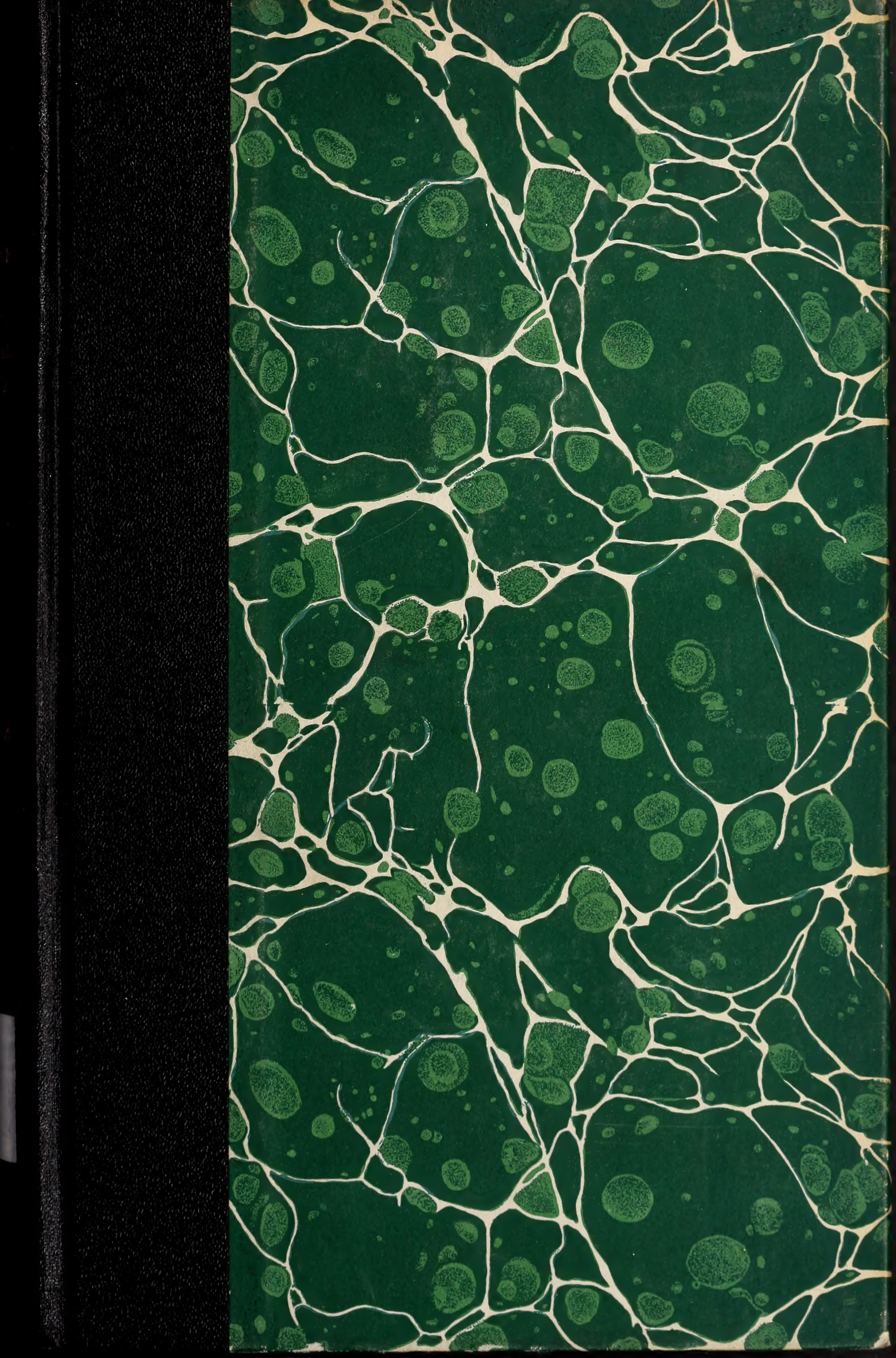

11

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List of Abbreviated Titles.

Abh. k.-bayer. Akad. Wissensch. Abhandlungen der königlich-bayerischen Akademie der Wissenschaften. Munich.

Abh. k.-k. geol. Reichsanst. Abhandlungen der kaiserlich-königlich geologischen Reichsanstalt. Vienna.

Abh. k. Leop.-Car. deutsch. Akad. Abhandlungen der kaiserlichen Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher. Halle.

Abh. k.-preuss. geol. Landesanst. Abhandlungen der königlich preussischen geologischen Landesanstalt. Berlin.

Abh. naturf. Gesellsch. Halle. Abhandlungen der naturforschenden Gesellschaft zu Halle. Stuttgart.

Abh. naturh. Gesellsch. Nürnberg. Abhandlungen der naturhistorichen Gesellschaft zu Nürnberg. Nuremberg.

Abh. Senckenb. naturf. Gesellsch. Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfort-on-the-Main.

Abs. Proc. G. S. Abstracts of the Proceedings of the Geological Society. London.

Actes Soc. Linn. Bordeaux. Actes de la Société Linnéenne de Bordeaux. Bordeaux.

Amer. J. Sci. American Journal of Science. New Haven.

An. Centro Estud. Sism. Costa Rica. Anales del Centro de Estudios Sismológicos de Costa Rica. San José.

An. Inst. geol. Romániei. Anuarul Institutului geologic al Romániei. Bucarest.

An. Mus. Nac. Buenos Aires. Anales del Museo Nacional de Buenos Aires. Buenos Aires.

An. R. Acad. Cienc. Madrid. Anuario de la Real Academia de Ciencias exactas, fisicas y naturales. Madrid.

An. Soc. cient. Argent. Anales de la Sociedad científica Argentina. Buenos Aires.

Ann. géol. et min. Russ. Annuaire géologique et minéralogique de la Russie. Warsaw & Novo Alexandria.

Ann. k.-k. naturhist. Hofmus., Wien. Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.

Ann. Mag. Nat. Hist. Annals and Magazine of Natural History. London.

Ann. Mines, Paris. Annales des Mines. Paris.

Ann. Mus. Congo belge. Annales du Musée du Congo belge. Brussels.

Ann. N.Y. Acad. Sci. Annals of the New York Academy of Sciences. New York.

Ann. Paléont., Paris. Annales de Paléontologie. Paris.

Ann, Rep. Am. Mus. Nat. Hist., N.Y. Annual Report of the American Museum of Natural History. New York.

Ann. Rep. Bur. Mines, Ontario. Annual Report of the Bureau of Mines. Ontario.

Ann. Rep. Dep. Mines, B.C. Annual Report of the Department of Mines, British Columbia. Victoria (B.C.).

Ann. Rep. Dep. Mines, N.S.W. Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.

Ann. Rep. Geol. Comm., Cape of Good Hope. Annual Report of the Geological Commission of the Cape of Good Hope. Cape Town.

Ann. Rep. Geol. Surv. W. Austr. Annual Progress Report of the Geological Survey. Perth (W. Austr.).

Ann. Rep. Iowa Geol. Surv. Annual Report of the Iowa Geological Survey. Des Moines.

Ann. Rep. Mus. Comp. Zool. Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
Ann. Rep. Rhodesia Chamber of Mines, Bulawayo. Annual Report of the Rhodesia Chamber of Mines. Bulawayo.
Ann. Rep. Rhodesia Mus. Annual Report of the Rhodesia Museum. Bulawayo.
Ann. Rep. S. Afr. Mines Dep. Annual Report of the Mines Department of the Union of South Africa. Pretoria.
Ann. Rep. U.S. Geol. Surv. Annual Report of the United States Geological Survey. Washington (D.C.).
Ann. Rep. Yorks. Phil. Soc. Annual Report of the Yorkshire Philosophical Society. York.
Ann. S. Afr. Mus., Cape Town. Annals of the South African Museum. Cape Town.
Ann. sci. Acad. polyt. Porto. Annaes scientificos da Academia polytecnica do Porto. Coimbra.
Ann. Sci. nat. (*Zool. & Paléont.*). Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
Ann. Sci. Univ. Jassy. Annales scientifiques de l'Université de Jassy. Jassy.
Ann. Soc. géol. Belg., Liége. Annales de la Société géologique de Belgique. Liége.
Ann. Univ. toscane. Annali delle Università toscane. Pisa.
Anz. k. Akad. Wissensch., Wien. Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
Arch. Anthrop. & Geol. Schleswig-Holsteins. Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel & Leipzig.
Arch. Mus. Hist. nat. Lyon. Archives du Muséum d'Histoire naturelle. Lyon.
Ark. f. (*Bot.*; *Kemi, Min. & Geol.*; or *Zool.*) *K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utigfvet af K. svenska Vetenskaps-Akademien. Stockholm.
Atti R. Acc. Lincei, Rendic. Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
Atti R. Acc. Sci. Padova. Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
Atti R. Acc. Sci. Torino. Atti della Reale Accademia delle Scienze di Torino. Turin.
Atti Soc. tosc. Sci. nat. Atti della Società toscana di Scienze naturali. Pisa.
Beitr. geol. Schweiz. Beiträge zur Geologischen Karte der Schweiz. Berne.
Beitr. Geophys., Leipzig. Beiträge zur Geophysik. Leipzig.
Ber. naturf. Gesellsch., Freiburg i. B. Berichte der naturforschenden Gesellschaft. Freiburg (Baden).
Ber. Senckenb. naturf. Gesellsch. Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfort-on-the-Main.
Berg- hütt. Jahrb., Wien. Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Příbram und der königlich ungarischen Bergakademie zu Schemnitz. Vienna.
Bergens Mus. Aarb. Bergens Museums Aarbog (*or* Aarberetning). Bergen.
Bol. Ing. Minas, Perú. Boletín del Cuerpo de Ingenieros de Minas del Perú. Lima.
Bol. Soc. Geogr. Lisboa. Boletim da Sociedade de Geographia de Lisboa. Lisbon.
Bol. Soc. Nac. Minería, Santiago. Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
Boll. Inst. Geol. España. Boletin del Instituto Geológico de España. Madrid.
Boll. R. Com. geol. Ital. Bollettino del Reale Comitato geologico d'Italia. Rome.
Boll. Soc. geol. ital. Bollettino della Società geologica italiana. Rome.
British Columbia, Bur. Mines. British Columbia: Bureau of Mines. Victoria (B.C.).
Bull. Acad. Imp. Sci., St. Pétersb. Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
Bull. Acad. Roy. Belg. Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
Bull. Am. Mus. Nat. Hist., N.Y. Bulletin of the American Museum of Natural History. New York.
Bull. Calif. State Mining Bur. Bulletin of the Californian State Mining Bureau. San Francisco.
Bull. Com. géol. Russie. Bulletins du Comité géologique. St. Petersburg.
Bull. Connect. Geol. & Nat. Hist. Surv. Bulletin of the Connecticut State Geological and Natural History Survey. Hartford (Conn.).
Bull. Geol. Soc. Amer. Bulletin of the Geological Society of America. Rochester (N.Y.).

Bull. Geol. Surv. Ohio. Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
Bull. Geol. Surv. S. Australia. Bulletin of the Geological Survey of South Australia. Adelaide.
Bull. Geol. Surv. S. Rhodesia. Bulletin of the Geological Survey of Southern Rhodesia. Bulawayo.
Bull. Geol. Surv. Victoria. Bulletin of the Geological Survey of Victoria. Melbourne.
Bull. Geol. Surv. W. Austr. Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
Bull. Geol. Univ. Calif. Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
Bull. Illin. Geol. Surv. Bulletin of the Illinois State Geological Survey. Urbana (Ill.).
Bull. Imp. Earthq. Comm. Tokyo. Bulletin of the Imperial Earthquake Commission. Tokyo.
Bull. Intern. Acad. Sci. Cracovie. Bulletin International de l'Académie des Sciences. Cracow.
Bull. Iowa Geological Surv. Bulletin of the Iowa Geological Survey. Des Moines.
Bull. Lab. de Géol. &c., Univ. Lausanne. Bulletin des Laboratoires de Géologie, Géographie physique, Minéralogie et Paléontologie de l'Université de Lausanne. Lausanne.
Bull. Mus. Comp. Zool. Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
Bull. Mus. Hist. nat. Paris. Bulletin du Muséum d'Histoire naturelle. Paris.
Bull. N. Carolina G. S. Bulletin of the North Carolina Geological Survey. Raleigh.
Bull. N.Y. State Mus. Bulletin of the New York State Museum. Albany.
Bull. Nat. Hist. Soc. New Brunswick. Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
Bull. Northern Territory Aust. Bulletin of the Northern Territory of Australia. Melbourne.
Bull. Oklahoma Geol. Surv. Bulletin of the Oklahoma Geological Survey. Norman (Okl.).
Bull. Sect. Sci. Acad. Roumaine. Bulletin de la Section Scientifique de l'Académie Roumaine. Bucarest.
Bull. Serv. Carte géol. France. Bulletin des Services de la Carte géologique de la France. Paris.
Bull. Soc. belge Géol., Brux. Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
Bull. Soc. franç. Min. Bulletin de la Société française de Minéralogie. Paris.
Bull. Soc. fribourg. Sci. nat. Bulletin de la Société fribourgeoise des Sciences naturelles. Fribourg.
Bull. Soc. géol. France. Bulletin de la Société géologique de France. Paris.
Bull. Soc. géol. Norm. Bulletin de la Société géologique de Normandie. Le Havre.
Bull. Soc. Hist. nat. Toulouse. Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
Bull. Soc. Imp. Nat. Moscou. Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
Bull. Soc. Linn. Norm. Bulletin de la Société Linnéenne de Normandie. Caen.
Bull. Soc. oural. Sci. nat. Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
Bull. Soc. portugaise Sci. nat. Bulletin de la Société portugaise des Sciences naturelles. Lisbon.
Bull. Soc. sci. et méd. de l'Ouest, Rennes. Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
Bull. Soc. vaud. Sci. nat. Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
Bull. U.S. Geol. Surv. Bulletin of the United States Geological Survey. Washington.
Bull. U.S. Nat. Mus. Bulletin of the United States National Museum. Washington (D.C.).
Bull. Univ. Cal. Bulletin of the University of California. Berkeley (Cal.).
Bull. Univ. New Mex. Bulletin of the University of New Mexico. Albuquerque (N. Mex.).
Bull. Univ. Texas. Bulletin of the University of Texas. Austin.

Bull. Wash. Geol. Surv. Bulletin of the Washington Geological Survey. Olympia (Wash.).

Butl. Club Montanyenc. Butlleté del Club Montanyenc. Barcelona.

C. R. Acad. Sci., Paris. Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.

C. R. Assoc. franç. Av. Sci. Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.

C. R. Inst. géol. Roumanie. Comptes-Rendus des Séances. Institut géologique de Roumanie. Bucarest.

C. R. Soc. géol. France. Comptes-rendus sommaire des Séances de la Société géologique de France. Paris.

C. R. Soc. Phys. Genève. Comptes-rendus de la Société de Physique de Genève. Geneva.

Canada, Dep. Mines. Canada: Department of Mines. Ottawa.

Centralbl. f. Min. Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.

Chem. News. Chemical News. London.

Comm. geogr. e geol. S. Paulo. Commissão geographica e geologica de São Paulo. São Paulo (Brazil).

Congrès géol. Internat. Congrès géologique International.

Dan. geol. Undersög. Danmarks geologiska Undersögelse. Copenhagen.

Denkschr. k. Akad. Wissensch. Wien. Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.

Eclogæ Geol. Helv. Eclogæ Geologicæ Helvetiæ. Lausanne.

Econ. Geol. Economic Geology. Lancaster (Pa.).

Econ. Proc. R. Dublin Soc. Economic Proceedings of the Royal Dublin Society. Dublin.

Egypt, Surv. Dep. Egypt Survey Department & Geological Survey. Cairo.

Erläut. geol. Karte Baden. Erläuterungen zur geologischen Specialkarte des Grossherzogtums Baden. Heidelberg.

Erläut. geol. Karte Hessen. Erläuterungen zur geologischen Karte des Grossherzogtums Hessen. Darmstadt.

Erläut. geol. Karte Schweiz. Erläuterungen zur geologischen Karte der Schweiz. Aarau.

Essex Nat. Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.

Expl. géol. Rég. aurif. Sibérie. Explorations géologiques dans les Régions aurifères de la Sibérie. St. Petersburg.

Földt. Közl. Földtani Közlöny. Budapest.

Fortschr. Min. Krist. Petrogr. Fortschritte der Mineralogie, Kristallographie und Petrographie. Jena.

Geogn. Jahresh., München. Geognostische Jahreshefte. Munich.

Geogr. Journ. Geographical Journal (Royal Geographical Society). London.

Geol. Fören. Stockh. Förh. Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.

Geol. Mag. Geological Magazine. London.

Geol. Rundsch., Leipzig. Geologische Rundschau: Zeitschrift für allgemeine Geologie. Leipzig.

Geol. Surv. Canada. Contr. Canad. Palæont. Geological Survey of Canada: Contributions to Canadian Palæontology. Ottawa.

Geol. Surv. Queensl., Publ. Geological Survey of Queensland: Publications. Brisbane. See also *Ann. Rep. Dep. Mines, Queensl.*

Geol. u. Paläont. Abh., Jena. Geologische und Paläontologische Abhandlungen. Jena.

Geol. Zentralbl. Geologisches Zentralblatt. Leipzig.

Giorn. Geol. prat. Giornale di Geologia pratica. Parma & Pisa.

'Glasnik' Soc. Hist. nat. Croatica. [Journal of the Natural History Society of Croatia.] Agram.

Hull Mus. Publ. Hull Museum Publications. Hull.

Irish Nat. Irish Naturalist. Dublin.

Jaarb. Mijnw. Ned. O.-Ind. Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Batavia.

Jaarversl. Rijksop. Delfstoff. Amsterdam. Jaarverslag der Rijksopsporing van Delfstoffen. Amsterdam.

Jahrb. f. Berg- u. Hüttenw. Sachsen. Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.

Jahrb. k.-k. geol. Reichsanst. Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.

Jahrb. k.-preuss. geol. Landesanst. Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.

Jahrb. k.-ung. geol. Anst. Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.

Jahresb. niedersächs. geol. Ver. Jahresbericht des niedersächsischen geologischen Vereins. Hanover.

Jahresb. u. Mitt. Oberrhein. geol. Vereins. Jahresberichte und Mitteilungen des Oberrheinischen geologischen Vereines. Stuttgart.

Jahresh. Ver. Naturk. Württ. Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.

Journ. Acad. Nat. Sci. Philad. Journal of the Academy of Natural Sciences, Philadelphia.

Journ. Asiat. Soc. Bengal. Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.

Journ. Bombay Branch R. Asiat. Soc. Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.

Journ. Ceylon Branch R. Asiat. Soc. Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.

Journ. Cinc. Soc. Nat. Hist. Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).

Journ. Coll. Sci. Tokyo. Journal of the College of Science, Imperial University, Tokyo.

Journ. Conch., Paris. Journal de Conchyliologie. Paris.

Journ. Geol., Chicago. Journal of Geology. Chicago (Ill.).

Journ. Geol. Soc. Tokyo. Journal of the Geological Society of Tokyo. Tokyo.

Journ. Iron & Steel Inst. Journal of the Iron and Steel Institute. London.

Journ. Linn. Soc. Journal of the Linnean Society. London.

Journ. R. Agric. Soc. Journal of the Royal Agricultural Society. London.

Journ. R. Micr. Soc. Journal of the Royal Microscopical Society. London.

Journ. Roy. Soc. N.S.W. Journal and Proceedings of the Royal Society of New South Wales. Sydney.

Journ. Wash. Acad. Sci. Journal of the Washington Academy of Sciences. Baltimore (Md.).

Journ. & Proc. Hamilton Sci. Assoc. (Canada). Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).

K. danske Vidensk. Selsk. Skrift. Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.

K. svenska Vet.-Akad. Årsbok. Kongliga svenska Vetenskaps-Akademiens Årsbok. Stockholm.

K. svenska Vet.-Akad. Handl. Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.

Lond. Edinb. Dubl. Phil. Mag. London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.

Maryland Geol. Surv. Maryland Geological Survey. Baltimore (Md.).

Meddel. dansk geol. Foren. Meddelelser fra dansk geologisk Forening. Copenhagen.

Meddel. Grönland. Meddelelser om Grönland, udgivne af Commissionen for Ledelsen af de Geologiske og Geographiske Undersögelser i Grönland. Copenhagen.

Mededeel. Rijksop. Delfstof. Mededeelingen van de Rijksopsporing van Delfstoffen. Amsterdam.

Mém. Acad. Roy. Belg. Mémoires de l'Académie Royale de Belgique. Brussels.

Mém. Acad. Stanislas. Mémoires de l'Académie de Stanislas. Nancy.

Mem. Amer. Acad. Arts & Sci. Memoirs of the American Academy of Arts and Sciences. Cambridge (Mass.).

Mem. Amer. Mus. Nat. Hist., N.Y. Memoirs of the American Museum of Natural History. New York.

Mem. Asiat. Soc. Bengal. Memoirs of the Asiatic Society of Bengal. Calcutta.

Mem. Carta geol. Ital. Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.

Mém. Carte géol. France. Mémoires pour servir à l'Explication de la Carte géologique détaillée de la France. Paris.

Mém. Com. géol. Russie. Mémoires du Comité géologique. St. Petersburg.

Mem. Geol. Surv. England & Wales. Memoirs of the Geological Survey of England and Wales. London.

Mem. Geol. Surv. India. Memoirs of the Geological Survey of India. Calcutta.

Mem. Geol. Surv. Scotland. Memoirs of the Geological Survey of Scotland. Edinburgh.

Mem. Geol. Surv. U.K. Memoirs of the Geological Survey of the United Kingdom. London, &c.

Mem. Geol. Surv. Victoria. Memoirs of the Geological Survey of Victoria. Melbourne.

Mem. Inst. Geol. España. Memorias del Instituto Geológico de España. Madrid.

Mem. Manch. Lit. Phil. Soc. Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.

Mem. Mus. Comp. Zool. Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).

Mém. Mus. R. Hist. nat. Belg. Mémoires du Musée Royal d'Histoire naturelle de Belgique. Brussels.

Mem. N.Y. State Mus. Memoirs of the New York State Museum. Albany.

Mem. R. Acad. Cienc., Madrid. Memorias de la Real Academía de Ciencias exactas, físicas y naturales. Madrid.

Mem. R. Acc. Lincei. Memorie della Reale Accademia dei Lincei. Rome.

Mem. R. Acc. Sci. Torino. Memorie della Reale Accademia delle Scienze. Turin.

Mém. Serv. géol. Indochine. Mémoires du Service Géologique de l'Indochine. Hanoi-Haiphong.

Mem. Soc. cient. 'Ant. Alzate.' Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.

Mém. Soc. fribourg. Sci. nat., Géol. et Géogr. Mémoires de la Société fribourgeoise des Sciences naturelles. Fribourg.

Mém. Soc. géol. France (Paléont.). Mémoires de la Société géologique de France. Paléontologie. Paris.

Mém. Soc. paléont. suisse. Mémoires de la Société paléontologique suisse. Geneva, &c.

Mém. Soc. Roy. Sci. Liége. Mémoires de la Société Royale des Sciences de Liége.

Mining Journ. Mining Journal. London.

Min. Mag. The Mineralogical Magazine, and Journal of the Mineralogical Society. London.

Min. petr. Mitt. Mineralogische und petrographische Mitteilungen. Vienna.

Missouri Bur. Geol. & Mines. Missouri Bureau of Geology and Mines. Rolla.

Mitt. badisch. geol. Landesanst. Mitteilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.

Mitt. Erdbeben-Komm. k. Akad. Wissensch., Wien. Mitteilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.

Mitt. geol. Gesellsch. Wien. Mitteilungen der geologischen Gesellschaft in Wien. Vienna.

Mitt. geol. Landesanst. Elsass-Lothr. Mitteilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.

Mitt. Jahrb. k.-ung. geol. Anst. Mitteilungen aus dem Jahrbuche der königlich ungarischen geologischen Anstalt. Budapest.

Mitt. Min.-Geol. Samml. Siebenb. Nationalmus. Mitteilungen aus der Mineralogisch - Geologischen Sammlung des Siebenbürgischen Nationalmuseums. Hermannstadt.

Mitt. naturf. Gesellsch., Bern. Mitteilungen der naturforschenden Gesellschaft. Berne.

Min. Naturhist. Ges. Nürnberg. Mitteilungen des Naturhistorischen Gesellschaft zu Nürnberg. Nuremberg.

Mitt. Ver. Erdk., Dresden. Mitteilungen des Vereins für Erdkunde. Dresden.

Monatsb. deutsch. geol. Gesellsch. Monatsberichte der deutschen geologischen Gesellschaft. Berlin. See also *Zeitschr.*

Monogr. Palæont. Soc. Monographs of the Palæontographical Society. London.

Monogr. Serv. Geol. Min. Brasil. Monographias do Serviço Geologico e Mineralogico do Brasil. Rio de Janeiro.

Monogr. U.S. Geol. Surv. Monographs of the United States Geological Survey. Washington (D.C.).

Naturalist. The Naturalist. Hull.

Nature. Nature. London.

Naturen, Bergen. Naturen. Bergen.

N. J. f. Min. Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.

N.S.W. Dep. Mines. New South Wales Department of Mines. Sydney.

N.Y. State Mus. New York State Museum. Albany (N.Y.).

N.Z. Dep. Mines, Geol. Surv. New Zealand Department of Mines. Geological Survey. Wellington (N.Z.).

Neue Denkschr. schweiz. Gesellsch. Naturw. Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Basel, &c.

Norges Geol. Undersök. Norges Geologiske Undersökelse. Christiania.

Norsk geol. Tidsskr. Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.

Notizbl. Ver. f. Erdk. Darmstadt. Notizblatt des Vereins für Erdkunde und der grossherzoglich-hessischen geologischen Landesanstalt. Darmstadt.

Nouv. Arch. Mus. Hist. nat. Paris. Nouvelles Archives du Muséum d'Histoire naturelle. Paris.

Oklahoma Geol. Surv. Bull. Oklahoma Geological Survey Bulletin. Norman.

Ottawa Nat. Ottawa Naturalist. Ottawa.

Overs. K. danske Vidensk.-Selsk. Forh. Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlinger. Copenhagen.

Paläobot. Lit., Jena. Paläobotanische Literatur. Jena.

Palæobot. Zeits. Palæobotanische Zeitschrift. Berlin.

Palæont. Indica. Palæontologica Indica. Calcutta.

Palæont. ital. Palæontographia italica. Pisa.

Palæont. Univ. Palæontologia Universalis. Paris.

Palæont. Zeits. Palæontologische Zeitschrift. Berlin.

Palæontographica. Palæontographica. Stuttgart.

Papers & Proc. Roy. Soc. Tasm. Papers and Proceedings of the Royal Society of Tasmania. Hobart.

Papers & Rep. Min. & Mining, N.Z. Papers and Reports relating to Minerals and Mining, New Zealand. Wellington (N.Z.).

Peterm. Mitt. Petermanns Mitteilungen. Gotha.

Phil. Trans. Philosophical Transactions of the Royal Society. London.

Philippine I., Bur. Sci., Min. Res. Philippine Islands, Bureau of Science, Mineral Resources. Manila.

Philippine Journ. Sci. Philippine Journal of Science. (Bureau of Science.) Manila.

Proc. Acad. Nat. Sci. Philad. Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).

Proc. Agric. Soc. Trinidad & Tobago. Proceedings of the Agricultural Society of Trinidad and Tobago. Trinidad.

Proc. Amer. Acad. Arts & Sci. Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).

Proc. Amer. Phil. Soc. Proceedings of the American Philosophical Society. Philadelphia (Pa.).

Proc. Bristol Nat. Soc. Proceedings of the Bristol Naturalists' Society. Bristol.

Proc. Calif. Acad. Sci. Proceedings of the California Academy of Sciences. San Francisco (Cal.).

Proc. Cambridge Phil. Soc. Proceedings of the Cambridge Philosophical Society. Cambridge.

Proc. Colo. Sci. Soc. Proceedings of the Colorado Scientific Society. Denver (Colo.).

Proc. Cotteswold Nat. F.-C. Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.

Proc. Dorset Nat. Hist. F.-C. Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.

Proc. Geol. Assoc. Proceedings of the Geologists' Association. London.

Proc. Geol. Soc. S.A. Proceedings of the Geological Society of South Africa. Johannesburg.

Proc. Linn. Soc. Proceedings of the Linnean Society. London.

Proc. Linn. Soc. N.S.W. Proceedings of the Linnean Society of New South Wales. Sydney.

Proc. Liverp. Geol. Soc. Proceedings of the Liverpool Geological Society. Liverpool.

Proc. Malac. Soc. London. Proceedings of the Malacological Society. London.

Proc. Nat. Acad. Sci. Proceedings of the National Academy of Sciences. Washington.

Proc. Prehist. Soc. E. Anglia. Proceedings of the Prehistoric Society of East Anglia. London.

Proc. Rochester Acad. Sci. Proceedings of the Rochester Academy of Science. Rochester (N.Y.).

Proc. Roy. Irish Acad. Proceedings of the Royal Irish Academy. Dublin.

Proc. Roy. Phys. Soc. Edinb. Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.

Proc. Roy. Soc. Proceedings of the Royal Society. London.

Proc. Roy. Soc. Edinb. Proceedings of the Royal Society of Edinburgh. Edinburgh.

Proc. Roy. Soc. Victoria. Proceedings of the Royal Society of Victoria. Melbourne.

Proc. S. Wales Inst. Engin. Proceedings of the South Wales Institute of Engineers. Cardiff.

Proc. U.S. Nat. Mus. Proceedings of the United States National Museum. Washington (D.C.).

Proc. Univ. Durham Phil. Soc. Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.

Proc. Zool. Soc. Proceedings of the Zoological Society. London.

Proc. & Trans. N.S. Inst. Sci. Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).

Proc. & Trans. Roy. Soc. Canada. Proceedings and Transactions of the Royal Society of Canada. Ottawa.

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Publ. Field Columbian Mus. Publications of the Field Columbian Museum. Chicago.

Q. J. G. S. Quarterly Journal of the Geological Society. London.

Quarry. The Quarry. London.

Queensl., Dep. Mines. Queensland : Department of Mines. Brisbane.

Rec. Geol. Surv. India. Records of the Geological Survey of India. Calcutta.

Rec. W. Austral. Mus. Perth. Records of the Western Australian Museum. Perth.

Rendic. e Mem. R. Acc. Sci. Acireale. Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.

Rendic. R. Acc. Sci. Napoli. Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.

Rendic. R. Ist. lomb. Reale Istituto lombardo di Scienze e Lettere : Rendiconti. Milan.

Rep. Brit. Assoc. Report of the British Association for the Advancement of Science. London.

Rep. Dep. Mines, India. Report of the Chief Inspector of Mines in India, Department of Mines. Calcutta.

Rep. Dep. Mines, W. Austral. Report of the Department of Mines, Western Australia. Perth.

Rep. Rugby School Nat. Hist. Soc. Report of the Rugby School Natural History Society. Rugby.

Rep. S. Afr. Mus. Report of the South African Museum. Cape Town.

Rep. State Geol. Vermont. Report of the State Geologist, Vermont. Albany (N.Y.).

Rep. U.S. Nat. Mus. Report of the United States National Museum. Washington (D.C.).

Rep. & Proc. Belfast Nat. Hist. Soc. Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.

Rep. & Trans. Devon. Assoc. Adv. Sci. See *Trans. Devon. Assoc.*

Rev. Cienc., Lima. Revista de Ciencias. Lima.

Rev. critique de Paléozool. Revue critique de Paléozoologie. Paris.

Rev. Mus. La Plata. Revista del Museo de la Plata. La Plata.

Rev. R. Acad. Cienc. Madrid. Revista de la Real Academía de Ciencias exactas físicas y naturales. Madrid.

Riv. ital. Paleont. Rivista italiana di Paleontologia. Catania (*late* Bologna, Parma).

Riv. Min. e Crist. ital., Padova. Rivista di Mineralogia e Cristallografia italiana. Padua.

Rochester Nat. Rochester Naturalist. Rochester.

Rozpr. Akad. Umiej. Krakow. Rozprawy Wydzialu matematyczno-przyrodniczego Akademii Umiejetnošci. Cracow.

S. Afr. Journ. Sci. South African Journal of Science, being the organ of the South African Association for the Advancement of Science. Cape Town.

Samml. geol. R.-Mus. Leiden. Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.

Schr. Naturf.-Gesellsch. Univ. Dorpat. Schriften herausgegeben von der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.

Schr. physik.-ökonom. Gesellsch. Königsb. Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.

Science. Science. New York.

Sci. Proc. R. Dublin Soc. Scientific Proceedings of the Royal Dublin Society. Dublin.

Sci. Rep. Tôhoku Imp. Univ. Science Reports of the Tohoku Imperial University. Sendai.

Scot. Geogr. Mag. Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.

Sitz. Gesellsch. naturf. Freunde, Berlin. Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.

Sitz. k. Akad. Wissensch., Wien. Sitzungsberichte der kaiserlichen Akademie der Wissenschaften. Vienna.

Sitz. k.-bayr. Akad. Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.

Sitz. k.-preuss. Akad. Wissensch., Berlin. Sitzungsberichte der königlich preussischen Akademie der Wissenschaften. Berlin.

Sitz. Naturf.-Gesellsch. Dorpat. Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.

Sitz. naturh. Ver. preuss. Rheinl. Sitzungsberichte herausgegeben vom naturhistorischen Verein der preussischen Rheinlande und Westfalens. Bonn.

Sitz. u. Abh. Gesellsch. 'Isis.' Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.

Smiths. Miscell. Coll. Smithsonian Miscellaneous Collections. Washington (D.C.).

South Australia, Dep. of Mines. South Australia, Department of Mines. Adelaide.

South Australia, Rev. Mining Operations. South Australia, Review of Mining Operations. Adelaide.

Spelunca. 'Spelunca.' Bulletin et Mémoires de la Société de Spéléologie. Paris.

Summ. Progr. Geol. Surv. U.K. Summary of Progress of the Geological Survey of the United Kingdom. London.

Tasm. Dep. Mines. Tasmania. Department of Mines. Hobart.

Trab. Mus. Cienc. Nat., Madrid. Trabajos del Museo de Ciencias Naturales. Madrid.

Trans. Acad. Sci. St. Louis. Transactions of the Academy of Science. St. Louis (Mo.).

Trans. Amer. Inst. M. E. Transactions of the American Institute of Mining Engineers. New York.

Trans. Cambridge Phil. Soc. Transactions of the Cambridge Philosophical Society. Cambridge.

Trans. Canad. Inst. Transactions of the Canadian Institute. Toronto.

Trans. Connect. Acad. Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).

Trans. Devon Assoc. Transactions of the Devonshire Association for the Advancement of Science. Plymouth.

Trans. Geol. Soc. Glasgow. Transactions of the Geological Society of Glasgow. Glasgow.

Trans. Geol. Soc. S. Afr. Transactions of the Geological Society of South Africa. Johannesburg.

Trans. Herts Nat. Hist. Soc. Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.

Trans. Hull Geol. Soc. Transactions of the Hull Geological Society. Hull.

Trans. Inst. M. E. Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.

Trans. Inst. Mining & Metall. Transactions of the Institution of Mining and Metallurgy. London.

Trans. Inst. Water Eng. Transactions of the Institution of Water Engineers. London.

Trans. Leicester Lit. & Phil. Soc. Transactions of the Leicester Literary and Philosophical Society. Leicester.

Trans. Linn. Soc. Transactions of the Linnean Society. London.

Trans. Manch. Geol. Soc. Transactions of the Manchester Geological and Mining Society. Manchester.

Trans. N. Engl. Inst. Min. & Mech. Eng. Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.

Trans. N.Z. Inst. Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).

Trans. Paisley Nat. Soc. Transactions of the Paisley Naturalists' Society. Paisley.

Trans. Perth Soc. Nat. Sci. Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.

Trans. Roy. Soc. Edinb. Transactions of the Royal Society of Edinburgh. Edinburgh.

Trans. R. Geol. Soc. Cornwall. Transactions of the Royal Geological Society of Cornwall. Penzance.

Trans. Roy. Soc. S. Afr. Transactions of the Royal Society of South Africa. Cape Town.

Trans. Worcester Nat. Club. Transactions of the Worcestershire Naturalists' Club. Worcester.

Trans. Zool. Soc. Lond. Transactions of the Zoological Society. London.

Trav. Mus. géol. Pierre le Grand. Travaux du Musée géologique Pierre le Grand. St. Petersburg.

Verh. deutsch. wissensch. Ver. Santiago. Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.

Verh. k.-k. geol. Reichsanst. Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.

Verh. k.-k. zool.-bot. Gesellsch. Wien. Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.

Verh. naturf. Gesellsch. Basel. Verhandlungen der naturforschenden Gesellschaft. Basel.

Verh. naturh. Ver. preuss. Rheinl. Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens und des Regierungs-Bezirks Osnabrück. Bonn.

Verh. russ.-k. min. Gesellsch. Verhandlungen der russisch-kaiserlichen mineralogischen Gesellschaft. St. Petersburg.

Verh. schweiz. naturf. Gesellsch. Verhandlungen der schweizerischen naturforschenden Gesellschaft. Berne, &c.

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Victorian Nat., Melbourne. Victorian Naturalist. Melbourne.

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Zeitschr. f. Gletscherk. Berlin. Zeitschrift für Gletscherkunde. Berlin.

Zeitschr. f. Kryst. Zeitschrift für Krystallographie und Mineralogie. Leipzig.

Zeitschr. f. Naturw. Halle. Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen zu Halle a. S. Leipzig.

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Analyses, ægirite.—Larsen, E. S.
——, albite.—Foote, H. W.
——, albite-porphyry.—Thomson, J. A.
——, alkaline rocks.—Smyth, C. H., *fil.*
——, aluminium-arsenate.—Clarke, F. W.
——, amphibolite.—Bergt, W.; Jack, R. L.; Knopf, A.; Thomson, J. A.
——, andesite.—Kôzu, S.
——, aplite.—Collins, W. H.; Emmons, W. H., 2.
——, australites.—Dunn, E. J.
——, basalt.—Berg, G., 3; Deprat, J., 4; Junner, N. R.; Klemm, G.; Kôzu, S.; Morozewicz, J.; Sobral, J. M.; Sommerfeldt, E.; Vitalis, J.
——, Bathonian rocks.—Odling, M.
——, bauxitic clay.—Schottler, W., 2.
——, cancrinite.—Brauns, R., 2.
——, cement-materials.—Eckel, E. C.
——, cherts.—Cairnes, D. D., 2.
——, chromiferous iron-ore.—Scott, H. K.
——, clays.—Eckel, E. C.; Horváth, B. von, 2.
——, coal.—Campbell, M. R.; Hinds, H.; Lee, W. T.; Read, T. T.; *see also* CONGR. GÉOL. INTERNAT., Coal Resources; & GREAT BRITAIN, Colonial Office, 2 & 3.
——, comendite.—Kôzu, S.
——, contact-rocks, Hesse.—Klemm, G.
——, coorongite.—Ward, L. K.
Analyses, crocidolite.—Doht, R.
——, cuprodescloizite.—Wells, R. C., 2.
——, dacite.—Tucan, F., 7.
——, damourite.—Lovisato, D., 2.
——, delafossite.—Rogers, A. F., 2.
——, diabase.—Collins, W. H.; Miller, W. G., 2; Sobral, J. M.; Ussher, W. A. E., 2.
——, diorite.—Klemm, G.; Knopf, A.
——, dolomite.—Dale, T. N.; Harder, E. C.; Oxaal, J.
——, essexite.—Jevons, H. S.
——, felspar.—Lovisato, D., 2.
——, garnet.—Stewart, C. A.
——, glass-sands.—Buttram, F.
——, granite.—Bascom, F.; Chirvinskii, P. N., 3; Jack, R. L.; Klemm, G.; Reid, C., 3; Rozlozsnik, P.; Sobral, J. M.; Warren, C. H.
——, granodiorite.—Cairnes, D. D., 2; Emmons, W. H., 2; Le Roy, O. E.
——, granophyre.—Klemm, G.
——, gypsum.—Jack, R. L.
——, iron-ore.—Rubio y Muñoz, C.; Talbot, H. W. B.; Vattier, C.; Villasante, F. B.; Ward, L. K., 2.
——, kentallenite.—Sobral, J. M.
——, laterite.—Arsandaux, H., 2.
——, lignite.—Horváth, B. von.
——, limestone.—Condit, D. D.; Eckel, E. C.; Holtedahl, O.; Trechmann, C. T.
——, Magnesian Limestone.—Trechmann, C. T.
——, magnesite.—Redlich, K. A., 2.
——, magnetite.—Lovisato, D., 2.
——, marble.—Dale, T. N.
——, margarodite.—Lovisato, D., 2.
——, meteoric iron.—Merrill, G. P., 3; Watson, T. L.
——, meteorites.—Anderson, C., 2; Ducloux, E. H.; Merrill, G. P. 4 & 5.
——, monzonite.—Butler, B. S.; Le Roy, O. E.; Sobral, J. M.
——, 'mountain cork.'—Jack, R. L., 2.
——, nepheline.—Karandyeev, V. V.
——, nitrates.—Gale, H. S.
——, peat.—Dachnowski, A.
——, pegmatite.—Klemm, G.
——, peridotites.—Sobral, J. M.
——, petroleum.—Horváth, B. von, 2.
——, pickeringite.—Zilbermintz, V. A.
——, porphyry.—Jack, R. L.; Warren, C. H.
——, pottery-clay.—Howitt, A. M.
——, proustite.—Van Horn, F. R.
——, pyroxene.—Doht, R.
——, rhyolite.—Kôzu, S.
——, salic dyke-rocks.—Sobral, J. M.
——, schists.—Wunderlin, W.
——, shales.—Eckel, E. C.
——, siderite.—Redlich, K. A., 2.
——, sinter-deposits.—Bell, J. M.
——, sodalite.—Starrabba, F. S.
——, sölvsburgite.—Skeats, E. W., 2.
——, soils.—Ballenegger, R.; Kœhne, W.

Analyses, sulphide-ores.—Emmons, W. H.
——, syenite.—Kôzu, S,
——, thorianite.—Jakob, A.
——, titaniferous iron-ore.—Sobral, J. M.
——, tonalite.—Hradil, G.
——, trachyte.—Kôzu, S.
——, triplite.—Hess, F. L.
——, tuffs.—Morozewicz, I.
——, volcanic exhalations.—Day, A. L., 3.
——, water.—Arnaud, F.W. F.; Muller, M. L.; Norton, W. H., 1 & 2; Thuerach, H.
——, Alpine crystalline rocks.—Becke, F. J. K.
——, Ceylon minerals.—Chernik, G. P.
——, Halcyon springs.—Le Roy, O. E.
——, Hungarian rocks. — Horváth, B. von.
——, Kalgoorlie rocks.—Simpson, E. S.
——, Laacher-See rocks.—Brauns, R., 2.
——, Lewisian gneiss & assoc. rocks.—Peach, B. N., 3.
——, Madeira rocks.—Gagel, C., 3.
——, Midway volcanic rocks.—Le Roy, O. E.
——, Neponset-Valley rocks. — Bascom, F.
——, New Zealand volcanic rocks.—Bell, J. M.
——, Sardinian lavas.—Washington, H. S.
——, Silesian nickel-ores.—Beyschlag, F. H. A., 4.
——, Utah lavas & minerals. — Butler, B. S.
——, Vancouver igneous rocks.—Clapp, C. H., 3.
——, Victorian volcanic rocks.—Skeats, E. W., 2.
——, Virginian dyke-rocks.—Watson, T. L., 2.
——, crystallochemical. — Fedorow, E. von, 1 & 3.
——, graphical representation of rock-.—Berg, G., 4.
Anatase.—Buttgenbach, H., 3; Schetelig, J.; Sigmund, A.
Anastrophia.—Mansuy, H., 4.
Anatimya.—Steinmann, J. H. C. G. G., 5.
Anatina.—Scupin, H.
Anatolia.—Frech, F., 8 & 9; Milch, L.
Ananchytes.—Klinghardt, F.
Anchitherium.—Wagner, R. N.
Ancilla.—Boussac, J.
Ancillaria.—Schaffer, F. X.
Ancodon.—Schmidt, M.
Ancyloceras.—Sintzov, I. T.
Ancylus.—Cossmann, A. E. M., 2.
Andalusite. — Schwarz, E. H. L., 4; Vendl, A.
Andes (S. Am.).—Bowman, I.; Burckhardt, C., 2.
ANDERSON, T., *Obit.*—*See* Anon., 1.
Andesite, Cameroons.—Henssen, W.
Andesite, Egypt.—Ball, J.
——, Flores I.—Rack, G.
——, Magellan Peninsula. — *See* 'BELGICA' Expéd.
——, Massachusetts.—Bascom, F.
——, New Zealand.—Bell, J. M.
——, Oki Is.—Kôzu, S.
——, Sardinia.—Washington, H. S.
——, Utah.—Boutwell, J. M.
Anglesey.—Greenly, E., 1 & 2.
Anglesite.—Aloisi, P., 2.
Angistorhinus. gen. nov.—Mehl, M. G.
Angola (W. Africa).—Gregory, J. W., 2; Pereira de Sousa, A. A.
Anguillospira.—Vincent, E.
Angustella.—Frech, F., 5.
Anhydrite, Alsace.—Görgey, R.
——, Bavaria.—Mayer, F.
——, Durham.—Trechmann, C. T.
——, Holstein.—Gagel, C., 6.
——, Persian Gulf.—Pilgrim, G. E.
——, Utah.—Butler, B. S.
——, Würtemberg.—Hohenstein, V.
Aniene Valley (Italy).—Prever, P. L.
Anisaster.—Lambert, J.
Anisastinella.—Bittner, A.
Anisopyge.—Mansuy, H.
Anjou (France).—Bellanger, E.
Ankerite.—McDonald, D. P.
Annam.—Mansuy, H.
Annecy Lake (Savoy).—Kilian, C. C. W., 10.
Annelida, Cretaceous. — Scupin, H.; Wegner, R. N.
——, Devonian.—Clarke, J. M., 5 & 7; Kindle, E. M., 4; Lœwe, H.; Ohern, D. W., 3.
——, Eocene.—Dainelli, G., 3.
——, Jurassic.—Bœhm, G.
——, Oligocene.—Maury, C. J.
——, Ordovician.—Postlethwaite, J.
——, Tertiary.—Chapman, F., 3.
——, Trias. — Hohenstein, V.; Krumbeck, L.; Frech, F., 5.
Annelid-tubes, Bathonian.—Odling, M.
Annularia.—Goode, R. H.
Anodonta, distribution of.—Menzel, H.
Anodontophora.—Krumbeck, L.
Anolcytes.—Diener, C.; Frech, F., 2.
Anomalina.—Bagg, R. M.
Anomalocystites.—Schuchert, C., 3.
Anomia.—Björlykke, K. O., 3; Koken, E.; Scupin, H.
Anoplia.—Prosser, C. S., 4; Schuchert, C., 4.
Anoplophora.—Frech, F., 5.
Anoplotheca.—Prosser, C. S., 4; Schuchert, C., 4.
Anoptychia.—Hohenstein, V.
Anorthosite, Quebec.—Adams, F. D., 3.
——, Sweden.—Sobral, J. M.
Antarctic continent, supposed Tertiary.—Dyer, Sir W. T. T.
—— Expedition, Belgian (1897–99).—*See* 'BELGICA' Expéd.
—— ——, British (1907–1909).—Anon., 26; Priestly, R. E.

Antarctic Expedition, German (1901–1903).—Reinisch, R.
—— ——. Swedish (1901–1903). — *See* Sweden.
Antarctica.—Berry, E. W., 2; Brueckner, E., 3; David, T. W. E.; Gourdon, E.; Gregory, J. W.; Nordenskjöld, O., 5.
——, geological connexion between South America &.—Nordenskjöld, O., 2.
——, palæogeography of.—Hedley, C.
Antedon.—Chapman, F., 3; Schaffer, F. X.
Antholitus.—Nathorst, A. G., 2.
Anthonomus.—Wickham, H. F.
Anthophyllite.—Achiardi, G. D'.
Anthozoa.—Jourdy, E.
——, Carboniferous.—Carruthers, R. G.; Mansuy, H., 1 & 2; Mark, C. G.; Salée, A.; Smith, S., 2.
——, Cretaceous. — Blanckenhorn, M.; Scupin, H.; Wegner, R. N.
——, Devonian. — Asselbergs, E., 2; Clarke, J. M., 7; Gortani, M., 2; Leriche, M; Lœwe, H.; Mansuy, H., 4; Prosser, C. S., 3; Stauffer, C. R.; Swartz, C. K., 2.
——, Eocene.—Dickerson, R. E.; Vogl, V.
——, Jurassic. — Orbigny, A. D. d'.; Speyer, C.
——, Lias.—Mansuy, H., 2
——, Oligocene.—Oppenheim, P., 4.
——, Palæozoic.—Grabau, A. W., 3.
——, Permian.—Mansuy, H.
——, Silurian. — Etheridge, R., *fil.*; Mansuy, H., 2; Reed, F. R. C.
——, Tertiary.—Chapman, F., 3; Felix, J.
——, Trias.—Krumbeck, L.
——, geological distribution of.—Deecke, W., 6.
Anthracite, Italy.—Aichino, G.
Anthracomartus.—Petrunkevich, A.
Anthraconectes.—Clarke. J. M., 6.
Anthracotherium.—Schmidt, M.
Antimony, British Columbia.—Cairnes, D. D., 2.
——, Hungary.—Rozlozsnik, P.
——, Yukon.—Cairnes, D. D.
Antwerp (Belgium).—Hasse, G.
Aparchites.—Ulrich, E. O., 3.
Apatite.—Himmelbauer, A., 2; Rogers, A. F., 5; Schetelig, J.; Stansfield, J.
Apennines (Italy).—Sacco, F., 7; Steinmann, J. H. C. G. G., 3; Taramelli, T., 1 & 4.
Aphanitoma.—Dainelli, G.
Aphantomarius.—Pruvost, P., 3.
Aphlebia.—Gothan, W., 2; Seward, A. C., 4.
Apidium.—Reed, F. R. C.
Aplite, Cameroons.—Henssen, W.
——, Elba.—Manasse, E.
——, Montana.—Emmons, W. H., 2.
——, Ontario.—Collins, W. H.
Aplosmilia.—Speyer, C.
Apophyllite.—Fersmann, A., 2; Ungemach, H.
Aporhyolite.—Warren, C. H.
Aporrhais.—Harder, P.; Scupin, H.
Appalachian geosyncline.—Barrell, J.
Apparatus, projection.—Berek, M., 2.
——, rock - sectioning. — Smith, G. F. H.
Aptian, Peru.—Steinmann, J. H. C. G. G., 5.
——, Spain.—Mengaud, L., 2.
Aptychus.—Hennig, E., 8.
Apulia (Italy).—Gramzow, E.
Aquila (Abruzzi).—Crema, C.
Aquitaine (France).—Douvillé, H., 4.
Aquitanian, France.—Degrange-Touzin, A.; Dollfus, G. F., 9; Vasseur, G.
Arabia.—Cortese, E.; Pilgrim, G. E.
Arachnida, Carboniferous.—Pruvost, P., 3.
——, Palæozoic. — Petrunkevich, A., 1 & 2.
——, Tertiary.—Franceschi, D.
Arad (Hungary).—Treitz, P.
Arœoscelis.—Williston, S. W., 4 & 5.
Aragonite.—Durand, J.; Skinder, V.
Arakan Coast (Burma).—Brown, J. C., 2 & 3.
Aralia.—Fritel, P. H.
Arany (Hungary).—Rozlozsnik, P.
Ararat (Victoria).—Hunter, S.
Araucaria.—Thomson, R. B.
Araucarineæ.—Thomson, R. B.
Araucarites.—Halle, T. G., 3; Seward, A. C., 4.
Araucariopitys.—Thomson, R. B.
Araucarioxylon.—Thomson, R. B.
Araxes R. (Transcaucasia).—Bonnet, P.
Arbuthnott Group, Kincardineshire.—Campbell, R.
Arca.—Björlykke, K. O., 3; Boussac, J.; Lœwe, H.; Maury, C. J.; Orbigny, A. D. d'; Rollier, L., 2; Scupin, H.; Shvetz, F. P.; Vincent, E.
Arcestes.—Hohenstein, V.
Archæan, Lewis.—Peach, B. N., 2.
——, Sweden.—Högbom, A. G., 3.
——, Worcestershire.—Spackman, F. T.
——, classification of.—Coleman, A. P., 2.
——. *See also* Pre-Cambrian, *&c.*
Archæocidaris.—Mansuy, H., 1 & 4.
Archæodiadema.—Bather, F. A.
Archæocrunœcia.—Ulmer, G.
Archæocyathinæ.—Priestly, R. E.
Archæoneureclipsis.—Ulmer, G.
Archæopteryx.—Shufeldt, R. W., 2.
Archæotinoides.—Ulmer, G.
Archiacia.—Fourtau, R.
Archimediella.—Schaffer, F. X.
Archimylacris.—Pruvost, P., 5.
Architarbus.—Petrunkevich, A.
Architectonica.—Dickerson, R. E.
Arcinella.—Björlykke, K. O., 3.
Arci, Monte (Sardinia).— Washington, H. S.
——, —— (Elba).—Manasse, E.

Arcomartus.—Petrunkevich, A.
Arcomya.—Mansuy, H.
Arctic Archipelago.—Gregory, J. W.
—— Bed, Middlesex. — Warren, S. H., 3.
—— glaciers, melting of.—Philipp, H.
—— Is.—Reusch, H., 8.
—— regions, former climates of. — Nathorst, A. G., 1 & 3.
Ardèche (France).—Depape, G.
Ardennes.—Dollfus, G. F., 6; Dorlodot, H. de, 2; Douvillé, R., 10; Leriche, M., 1-3; Rauw, H. de; Van Werveke, L., 2; Watrin, N.
Arethusina.—Marr, J. E.
Argentario, Monte (Tuscany).—Fucini, A.
Argentera Group (Piedmont).—Sacco, F., 2 & 4.
Argentina.—Bonarelli, G.; Carles, E. de, 1-3; Cruchaga, M.; Ducloux, E. H.; Gerth, H.; Hermitte, E.; Keidel, H.; Kuehn, F.; Priem, F.; Reichert, F.; Romero, A. A.; Rovereto, G., 1 & 2.
Arges R. (Rumania).—Vâlsan, G.
Argina.—Maury, C. J.
Argolis (Greece).—Renz, C., 7.
Argyllshire.—Bailey, E. B.; Clough, C. T.; Strahan, A.
Argyrite.—Ungemach, H.
Argyroneta.—Franceschi, D.
Arianta.—Germain, L.
Arica earthquake (1868).—See, T. J. J.
Ariège (France).—Bertrand, L., 2 & 4; Longchambon, H., 2 & 3.
Arieticeras.—Pia, J. von.
Arisaig (Nova Scotia).—Twenhofel, W. H.
Arius.—Priem, F.
Arizona (U.S.A.). — Gregory, H. E.; Keyes, C. R., 2; Lindgren, W.; Merrill, G. P.; Notman, A.; Pogue, J. E.; Rogers, A. F., 2; Schrader, F. C.; Stewart, C. A., 1 & 4; Walter, M.
Arkansas (U.S.A.).—Branner, J. C., 4; Lindgren, W.
Arkose, Jura.—Azéma, L., 4; Bourgeat, F. E., 2.
Armissan (Aude).—Doncieux, L.
Armorican massif, earthquakes &. — Lemoine, P., 4.
Arpadites.—Diener, C.; Frech, F., 2.
Arran.—Tyrrell, G. W.
Arsenates, Utah.—Butler, B. S., 2.
Arsenic, Silesia.—Beyschlag, F. H. A., 4.
Arsenopyrite.—Cairnes, D. D.; Schetelig, J.
Arsures (Jura).—Bourgeat, F. E.
Artemis Mts. (Greece).—Renz, C., 3.
Artesian water, Australia. — *See* AUSTRALIA, Interstate Conference.
—— ——. *See also* Water.
—— wells, Essex.—Wood, J. M.
Arthraster.—Spencer, W. K.
Arthrolycosa.—Petrunkevich, A.
Arthropleura.—Andrée, K., 4; Pruvost, P.
Arthrostigma.—Matthew, G. F., 2.
Arthrostraca, Carboniferous. — Andrée, K., 4.
Asama-Yama volcano (Japan).—Davison, C.
Asaphus.—Reed, F. R. C.
Asbestos, Quebec. — Dresser, J. A.; Harvie, R.
——, Siberia.—Edelstein, J. S., 2.
Asch (Campine).—Harroy, J.
Ascherhübel (Saxony).—Schreiter, R.
Ascodictyon.—Ulrich, E. O., 3.
Asia.—Vendl, A., 4.
——, mountain-ranges of.—See, T. J. J.
——. *See also* Annam, Siberia, *&c.*
Asia Minor.—Kessler, P.; Philippson, A., 2 & 3; Pia, J. von.
Aspedites.—Arthaber, G. von.
Asphalt, Dutch East Indies.—Krumbeck, L.
——, Oklahoma.—Snider, L. C., 2.
——, Persian Gulf.—Pilgrim, G. E.
——, South Australia.—Ward, L. K.
Aspidoceras.—Fischer, E., 2.
Aspidosoma.—Clarke, J. M., 3.
Assam (India).—Brown, J. C.; Pascoe, E. H.
Asse (Brunswick).—Riedel, A.
Assilina.—Boussac, J.; Prever, P. L.
Assiniboia (Canada).—Collins, W. H., 2; Dowling, D. B., 3.
Assisi (Umbria).—Principi, P., 4.
Assoc. Internat. de Sismologie.—Hepites, S. C.
Astarte. — Bœhm, G.; Boussac, J.; Fischer, E., 2; Harder, P; Hofmann, K.; Krumbeck, L.; Orbigny, A. D. d'; Ravn, J. P. J.; Rollier, L., 2; Sokolov, D. N., 3; Woods, H.
Astartella.—Mansuy, H., 4; Mark, C. G.
Asteroidea, Cretaceous. — Scupin, H.; Spencer, W. K.; Welsch, J., 2.
——, Devonian.—Clarke, J. M., 3 & 7.
——, Tertiary.—Chapman, F., 3.
Asterotheca.—Gothan, W., 2.
Asthenotoma.—Cossmann, A. E. M., 2.
Astralium.—Kittl, E. A. L., 2.
Astrocœnia.—Speyer, C.
Astropecten. — Bather, F. A.; Scupin, H.
Astyris.—Dickerson, R. E.
Ataxioceras.—Spath, L. F.
Atherfield (Isle of Wight).—Hooley, R. W.
Atherstonia.—Broom, R., 5.
Athleta.—Boussac, J.
Atholl (Perthshire).—Barrow, G., 3.
Athyrella.—Renz, C., 7.
Athyrid-limestone, Dutch East Indies.—Krumbeck, L.
Athyris.—Asselbergs, E.; Clarke, J. M., 7; Frech, F., 4; Klähn, H.; Prosser, C. S., 4.

Atlantic, Eocene palæogeography of North.—Semper, M., 2.
——, submarine geology.—Lemoine, P., 2.
——, volcanic islands of.—Gagel, C.
—— coast, N. (U.S.A.), surface-water.—Babb, C. C., 1 & 2.
'Atlantis.'—Termier, P., 6; Wilckens, O., 4.
Atlas, Saharian.—Roux, H.
Atlin district (B.C.).—Cairnes, D. D., 2.
Atmosphere, flying reptiles & pressure of.—Harlé, E.
——, influence of carbonic acid in.—Arrhenius, S.
Atolls, Kokos-Keeling Is.—Wood-Jones, F.
——, formation of.—Elschner, C.
Atractites.—Frech, F., 9; Pia, J. von; Vadász, M. E.
Atrypa.—Chapman, F., 2; Clarke, J. M., 7; Gortani, M., 2; Lœwe, H.; Mansuy, H., 4; Prosser, C. S., 4; Schuchert, C., 4; Stauffer, C. R.
Atrypina.—Schuchert, C., 4.
Attica (Greece).—Négris, P., 4.
Aturia.—Cossmann, A. E. M., 2; Schaffer, F. X.
Auburn (Missouri).—Branson, E. B.
Aucella.—Ravn, J. P. J.; Sokolov, D. N., 3 & 4.
Aucellina.—Sokolov, D. N., 4.
Aude (France).—Depéret, C., 4; Doncieux, L., 1, 3, & 4; Durand, J., 2; Giraux, L.
Augen-gneiss, Riesengebirge.—Berg, E.
Augite.—Himmelbauer, A.; Ruesberg, F. W.
Aulacomya.—Ulmer, G.
Aulacophyllum.—Stauffer, C. R.
Aulacostephanus.—Ravn, J. P. J.
Aulacothyris—Bittner, A.; Frech, F., 4; Krumbeck, L.; Mansuy, H., 2; Schöndorf, F., 3.
Aulophyllum.—Smith, S., 2.
Aulopora.—Clarke, J. M., 7; Mansuy, H., 4; Pellizzari, G.; Swartz, C. K., 2.
Aulosteges.—Renz, C., 7.
Aureliancella.—Vincent, E.
Aurichalcite.—Buttgenbach, H.; Wittich, E., 2.
Auricula.—Cossmann, A. E. M., 2.
Aurignacian, Ain.—Mayet, L., 3.
——, Bavaria.—Hörmann, K.
——, Saône-et-Loire.—Mayet, L., 2.
Aurobismuthinite, new mineral.—König, G. A.
Austberg (Norway).—Bjœrlykke, K. O., 2.
Australasian Triassic faunal province.—Krumbeck, L.
Australia, artesian water in. — *See* AUSTRALIA.
——, present Triassic conditions in.—Spicer, E. C.
——, Northern Territory of. — Woolnough, W. G.
Australia (N.W. coast). — Gregory, J. W.
——. *See also* New South Wales, *&c.*
Australites.—Dunn, E. J.
Austria, sea-level changes on coast of.—Omori, F., 2.
——, coal-resources of. — Petrascheck, W., 2.
——, geological survey.—*See* Tietze, E.
—— (Lower). — Becke, F. J. K., 2; Schaffer, F. X., 2.
—— (Upper).—Spengler, E.
Aust (Gloucestershire).—Thompson, W.
Auvergne (France).—Glangeaud, P., 1, 4, & 7.
Avanza (Italy).—Vinassa de Regny, P. E.
AVEBURY, JOHN (Baron), *Obit.*—*See* Anon., 2.
Avers (Grisons).—Zyndel, F., 3.
Aves, Cretaceous.—Andrews, C. W., 2.
——, Oligocene.—Shufeldt, R. W., 2.
——, Pleistocene.—Miller, L. H.; Shufeldt, R. W., 3.
——, Quaternary. — Monnier, L.; Wilson, K.
——, feathers of.—Shufeldt, R. W., 2.
Aveyron (France).—Monestier, J.
Avicula.—Asselbergs, E.; Bittner, A., 2; Frech, F., 4; Hohenstein, V.; Kittl, E. A. L.; Lœwe, H.; Orbigny, A. D. d'; Scupin, H.; Toni, A. de; Vincent, E.
—— *quadrata.*—Maillieux, E., 7.
Aviculopecten.—Asselbergs, E.; Boutwell, J. M.; Clarke, J. M., 7; Cramer, R.; Lœwe, H.; Mansuy, H.; Mark, C. G.; Ohern, D. W., 5; Prosser, C. S., 4; Stauffer, C. R.
Avignon (Bouches-du-Rhône).—Roman, F., 2.
Awamoa Beds, New Zealand.—Marshall, P., 5.
Axe Mts. (Schwyz).—Buxtorf, A.
Axinæa.—Maury, C. J.
Axinite.—Himmelbauer, A., 3; Ungemach, H., 2.
Ayrshire.—Bather, F. A., 4; Strahan, A.; Tyrrell, G. W., 2.
Azores.—Gagel, C.
Azurite.—Toborffy, Z. von.
Azygograptus.—Postlethwaite, J.
Azylian, Bavaria.—Hörmann, K.

Babadagh (Dobrudscha).—Simionescu, I., 3.
Bactrites.—Clarke, J. M., 7; Prosser, C. S., 4.
Baculites.—Scupin, H.
Baden (Germany).—Brändlin, E.; Bubnoff, S. von, 1 & 2; Deninger, K.; Erdmannsdörfer, O. H., 2; Glaser, J.; Gutmann, S. G.; Harbort, E., 6; Henglein, M.; Meyer, G.; Neumann, L.; Schmidle, W.; Söllner, J.; Spiegelhalter, F.; Stierlin, K., 1 & 2; Thuerach, H.; Van Werveke, L., 9; Wilser, J.; Wurz, O.

Baganza (Emilia).—Anelli, M.
Bahia (Brazil).—Branner, J. C.; Mawson, J.; White, D.
Bahrain Is. (Persian Gulf).—Pilgrim, G. E.
Baiera.—Arber, E. A. N., 4; Thomas, H. Hamshaw, 2.
Baikal Mts. (Siberia).—Preobrazhenskii, P. I., 2.
Bairdia.—Méhes, G.
Bajocian, Caucasus.—Renz, C., 6.
——, Hanover.—Lœwe, F.
——, Var.—Lanquine, A., 2.
Bakevellia.—Mansuy, H.
Bakony (Hungary).—Arthaber, G. von; Bather, F. A.; Bittner, A., 1 & 2; Diener, C., 1 & 2; Frech, F., 2, 3, & 5; Kittl, E. A. L., 2; Méhes, G.; Sommerfeldt, E.; Tæger, H., 1 & 2; Vadász, M. E.
Baksan R. (Caucasus).—Rengharten, W. P., 2.
Balanophyllia.—Felix, J.
Balanus.—Dollfus, G. F.
Balaton district (Hungary).—Kittl, E. A. L.; Melczer, G.; Vitalis, I.
Balatonites.—Diener, C., 2; Frech, F., 2 & 5.
Balingen (Würtemberg).—Fischer, E.
Balininus.—Wickham, H. F.
Balla Caves (Hungary). — Hillebrand, E.
Ballins (Tyrol).—Fucini, A., 3.
Baltic amber, insects of.—Ulmer, G.
Baluchistan.—Cooper, C. F., 1–3.
Baluchitherium, gen. nov.—Cooper, C. F., 2.
Balwyn (Victoria).—Chapman, F., 5.
Bán Mts. (Hungary).—Lóczy, L. von, *fil.*
Bancroft (Ontario).—Adams, F. D., 5.
Banjaluka (Bosnia).—Katzer, F.
Banka I. (D.E.I.).—Bijdendijk, J. G.; Ploeg, F. P. C. S. van der, 2.
Banket.—Young, R. B., 2 & 3.
Bankhead (Manitoba).—Dowling, D. B., 2.
Baranya (Hungary).—Mauritz, B.
Barbatia.—Rollier, L., 2.
Barcelona (Catalonia).—Pruvost, P., 4.
Bardsey I.—Matley, C. A.
Bargusin (Siberia).—Kotulskii, V., 2.
Baris.—Wickham, H. F.
Barnham (Suffolk).—Clarke, W. G.
Baroti meteorite.—Cotter, G. de P.; Prior, G. T.
Barrens Sandstone, Pennsylvania. — Brown, T. C., 2.
Barrier-reefs. — Crossland, C., 2; Davis, W. M., 4.
Barrington Bone-Bed, Cambridgeshire.—Rastall, R. H.
Barroisia.—Rauff, H.
Barth iron-ore, Nevada.—Jones, J. C.
Baryspira.—Newton, R. B.; Schaffer, F. X.
Barytes.—Ledoux, A., 4; Michælis, P.
Basalt, Bohemia.—Hibsch, J. E., 2; Jahn, J. J.; Michel, H., 4 & 6; Wurm, F.
——, British Columbia.—*See* British Columbia, Bureau of Mines.
——, Cameroons.—Henssen, W.
——, Colorado.—Washington, H. S., 3.
——, Egypt.—Ball, J.
——, Hesse.—Schottler, W., 2 & 3.
——, Hungary. — Sommerfeldt, E., 3; Vitalis, I.
——, Nias I.—Veen, A. L. W. E. van der.
——, Norfolk I.—Speight, R.
——, Oki Is.—Kôzu, S.
——, Pantelleria. — Washington, H. S., 2.
——, Rhenish Prussia.—Martius, S.; Schuermann, E.; Wildschrey, E.
——, Sardinia.—Washington, H. S.
——, Saxony.—Schreiter, R.
——, St. Thomas I.—Bauer, M.
——, Scotland.—Jowett, A.; Tyrrell, G. W., 3.
——, Silesia.—Berg, G., 3.
——, Venetia. — Billows, E.; Fabiani, R.
——, Victoria.—Jutson, J. T.; Skeats, E. W., 2.
——, Virginia.—Watson, T. L., 2.
——, Würtemberg.—Vosseler, H.
——, Yunnan.—Deprat, J., 4.
——, formation of prisms in.—Bénard, H.; Dauzère, C.; Glangeaud, P., 5; Longchambon, M.
Basanite, Rhenish Prussia.—Martius, S.
Basel (Switzerland).—Buxtorf, A., 3; Gutzwiller, A.; Van Werveke, L., 6.
Basidechenella, subgen. nov.—Richter, R.
Basilosaurus.—Gidley, J. W.
Basin Range, Great (U.S.A.).—Baker, C. L.
Basses Pyrénées (France).—Stuart Menteath, P. W.
Bastardland (S.W. Africa). — Rimann, E.
Bastelica (Corsica).—Maury, E., 2.
Basterotia.—Schaffer, F. X.
Bastia (Corsica).—Caziot, E.
Bastnäsite.—Kœchlin, R.
Bath (Somerset).—Winwood, H. H.
Batholiths, Ontario.—Adams, F. D., 5.
Bathonian, Caucasus.—Renz, C. O.
——, Hanover.—Lœwe, F.
——, Oxfordshire.—Odling, M.
Bathytoma.—Cossmann, A. E. M., 2; Dainelli, G.
Bathyurus.—Perkins, G. H.
Batillaria.—Dainelli, G.
Bátos (Hungary).—Gaál, S. von.
Batostomella.—Ulrich, E. O., 3.
Batrachia, Quaternary. — Campana, D. del, 3.
——. *See also* Amphibia.
Batsford (Gloucestershire).—Strahan, A., 7.

Bauxite.—Arsandaux, H., 2; Dœlter, C., 2; Horváth, B. von; Lazarević, M., 3 & 4; Schottler, W., 2; Tućan, F., 1–3.
Bavaria.—Branca, W.; Gillitzer, G.; Hahn, F. F., 2; Henkel, L.; Hörmann, K., 1 & 2; Klebelsberg, R. von, 3; Kellermann, —; Kœhne, W., 1 & 2; Kranz, W.; Laubmann, H.; Mayer, F.; Münichsdorfer, F.; Penck, A., 4; Rossbach, G.; Rothpletz, A., 3 & 4; Schlagintweit, O.; Schmidt, Alb.; Speyer, C.; Till, A.; Weithofer, K. A.; *see also* Franconia.
Bayania.—Boussac, J.
Bayleia.—Douvillé, H.
Beach-formations, New South Wales.—Andrews, E. C., 2.
Beachia.—Schuchert, C., 4.
Beaniceras.—Buckman, S. S., 2.
Bear Lake (Utah).—Richardson, G. B.
Beardmore Glacier (Antarctica). — Priestly, R. E.
Beauce Limestone, Eure-et-Loir.—Dollfus, G. F., 4.
Beaufort Beds, South Africa.—Watson, D. M. S., 6.
Beaujolais Mts. (France).—Lévy, A. M., 4.
Beaverite.—Butler, B. S., 2.
Beddington (Surrey).—Kidner, H., 2.
Bedford Shale, Ohio.—Girty, G. H., 2.
Bedfordshire.—Banton, J. T.; Strahan, A., 6.
Beechamwell (Norfolk). — Nightingale, R. C.
Békés (Hungary). — Ballenegger, R.; Timkó, E.
Bela.—Cossmann, A. E. M., 2.
Belaia R. (Caucasus).—Robinson, V. N.
Belderrig (Mayo).—Hinch, J. de W.
Belemnites.—Bœhm, G.; Ravn, J. P. J.; Sintzov, I. T.
Belfort (France).—Fournier, E., 2.
Belgian Congo.—*See* Congo Belge.
Belgium, Coal Measures of.—Breton, L.; Renier, A., 1 & 3.
——, hydrology of.—Halet, F.
——, iron-bearing strata in.—Laur, F.
——, stratigraphic table of.—Grindl, L.
——. *See also* Brabant, *&c.*
Béligneux (Ain).—Martin, J. B.
Bellerophon.—Clarke, J. M., 3, 5, & 7; Gortani, M., 2; Lœwe, H.; Mansuy, H., 4; Ohern, D. W., 5; Reed, F. R. C.; Stauffer, C. R.
Belluno (Italy).—Toni, A. de; Toso, P.
Beloptera & *Belosepia.*—Cossmann, A. E. M., 2.
Beltina.—Clarke, J. M., 6.
Bemberia.—Prosser, C. S., 4.
Bembridge Limestone, Dorset.—Bloomfield, A. H.; Keeping, H.
Benderi (Caucasus).—Khomenko, I.
Bengal.—Bancroft, N.
Beni-Bu-Ifrur (Morocco). — Dieckmann, W.
Benoistia.—Boussac, J.
Bentley (Suffolk).—Boswell, P. G. H., 2.
Berœodes.—Ulmer, G.
Berbachite, Ural Mts.—Duparc, L., 3.
Berchtesgaden (Bavaria).—Gillitzer, G.; Mayer, F.
Berea Sandstone, Ohio.—Burroughs, W. G.
Berenicea.—Wolfer, O.
Berethalom (Hungary). — Roth von Telegd, L., 4.
Berga (Pyrenees).—Kostka, R.
Bergen (Norway).—Monckton, H. W., 2.
——, earthquake records at.—Kolderup, C. F., 2.
Beriasella.—Steinmann, J. H. C. G. G., 4.
Berlé (Luxemburg).—Leidhold, C.
Berlin Museum.—Penck, A., 2.
Bermuda Is.—Peile, A. J.; Pirsson, L. V.
Berne (Switzerland). — Chaix, E., 2; Gerber, E., 1–3; Nussbaum, F.; Rytz, W.; Schlee, P.
Berrouaguia (Algeria).—Savornin, J.
Berszászka (Hungary).—Schafarzik, F.; 1 & 2.
Bertrandite.—Russell, A., 2.
Beryl.—Lacroix, A. F. A., 4.
Beryllium-silicate.—Dœlter, C.
Besano (Lombardy).—Alessandri, G. de.
Besbre Valley (Allier).—Dareste de la Chavanne, J.
Beskid Mts., Western (Galicia). — Sawicki, L.
Bessemer, Mount (S. Australia).—Ward, L. K., 2.
Betafite.—Lacroix, A. F. A., 3.
Béthune (Pas-de-Calais). — Gosselet, J. A. A.
Beudantite.—Butler, B. S., 2.
Beushausenia.—Rollier, L., 2.
Bevaix (Neuchâtel).—Germain, L.
Beyrichites.—Frech, F., 2.
Bibliography, Alaska.—Capps, S. R., 2.
——, Antarctica.—Nordenskjöld, O., 5.
——, Australian meteorites.—Anderson, C.
——, Brazilian mining.—Freise, F., 3.
——, Cambrian Brachiopoda.—Walcott, C. D.
——, Canada.—Reinecke, L.
——, Celebes I.—Ahlburg, J., 2.
——, cement-materials, U.S.A. — Eckel, E. C.
——, Congo Belge.—Guillemain, C., 2.
——, Cotteswold Hills.—Austin, R.
——, Cretaceous plants.—Stopes, M. C. C., 6.
——, economic materials of U.S.A.—Lindgren, W.
——, Eurypterida.—Clarke, J. M., 6.
——, fiords, &c.—Gregory, J. W.
——, marble.—Dale, T. N.
——, meteorites.—Berwerth, F., 2.
——, mineral resources of China.—Read, T. T.

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——, North American geology.—Nickles, J. M.
——, N. American stratigraphy.—Willis, B.
——, Nummulinæ & Assilinæ. — Boussac, J.
——, obsidianites.—Dunn, E. J.
——, palæobotany.—Jongmans, W. J.
——, Russia.—Krishtafovich, N. I., 1 & 2.
——, Switzerland.—Sarasin, C.
——, Washington.—O'Donnell, G.
——, Wealden plants. — Seward, A. C., 4.
Bic (Quebec).—Young, G. A.
Bicea.—Walcott, C. D.
Bicornucopina.—Hofmann, K.
Biely Urioms R. basin (Amur). — Makerov, Y. A., 2.
Bienrode (Brunswick).—Riedel, A., 2 & 3.
Biesmerée (Namur).—Anthoine, R.
Bifertenstock (Grisons).—Keller, W. A.
Biflustra.—Wegner, R. N.
Bighorn Basin (Wyoming). — Sinclair, W. J.
Bihar Mts. (Hungary).—Szontagh, T. von, 1 & 2.
Billingsella.—Walcott, C. D.
Biloculina.—Bagg, R. M.; Fœrster, B.; Schmidle, W.
Binda (New South Wales).—Anderson, C., 2.
Binn (Valais).—Lewis, W. J.
Binney, E. W., *Centenary.*—*See* Binney, J.
Binnite.—Baumhauer, H., 2.
Biplices.—Spath, L. F.
Biradiolites.—Scupin, H.
Birds.—*See* Aves.
Birmingham (Warwickshire). — Auden, G. A.; Lapworth, C.
Bisbee (Arizona).—Notman, A.; Rogers, A. F., 2.
Bishop's Stortford (Essex).—Irving, A.
Bispgården (Jemtland).—Carlzon, C.
Bithynian Peninsula (Asia Minor).—Kessler, P.
Bittium.—Brown, A. P.; Cerulli-Irelli, S.; Chapman, F., 4; Dickerson, R. E.
Bitumen, Rhine Valley.—Van Werveke, L., 3.
——, South Australia.—Ward, L. K.
Bituminous schists, Lombardy.—Alessandri, G. de.
Bize (Aude).—Depéret, C., 5; Giraux, L.
Bjellaadal (Norway).—Rekstad, J., 3.
Black earth.—Kossowich, P.
Black Forest (Baden).—Bubnoff, S. von; Erdmannsdörfer, O. H., 2; Henglein, M.; Meyer, G.; Neumann, R.; Schwenkel, H.
——, E. (Würtemberg).—Hohenstein, V.
Blackhall Colliery (Durham).—Trechmann, C. T.
Black Hills (Dakota).—Paige, S.
Black-Mountain district (Kentucky).—Dilworth, J. B.
Black-Reef formation, Transvaal. — Horwood, C. B.
Blanco, Cape (Oregon).—Merriam, J. C.
Blastoidea, Carboniferous. — Bather F. A., 2.
Blattidæ.—Meunier, F.
Blattoidea.—Reis, O. M., 2.
Bletchley (Buckinghamshire).—Davies, A. M., 2.
Blœdite.—Schaller, W. T.
Blue ground, Africa (S.W.).—Range, P.
——, Congo Belge.—Stutzer, O., 2.
Blue Hills (Massachusetts). — Warren, C. H.
Bodenbach (Bohemia).—Michel, H., 9.
Bœhm, G., *Obit.*—*See* Deecke, W., 3.
Bœrum (Norway).—Werenskiold, W.
Boghari (Algeria).—Savornin, J.
Bohemia.—Hibsch, J. E., 1 & 2; Himmelbauer, A.; Jahn, J. J.; Klouček, C.; Michel, H., 4, 7, & 9; Petrascheck, W., 1 & 3; Sokol, R., 1–3; Weber, M.; Wurm, F.; Zelízko, J. V., 2.
Boinstorf (Brunswick).—Mestwerdt, A.
Boko-Songho (Congo). — Buttgenbach, H., 7.
Bolbec (Seine Inf.).—Lecureur, A.
Bolivia (S. Am.).—Gregory, H. E., 3 & 4; Herzog, T.; Sundt, L.
Bolivina.—Bagg, R. M.; Fœrster, B.
Bollia. — Prosser, C. S., 4; Ulrich, E. O., 3.
Böllsteiner Höhe (Hesse).—Klemm, G., 3.
Bólya (Hungary).—Halaváts, G. von, 2.
Bombs, volcanic.—Perret, F. A., 5.
Boncelles (Liége).—Malaise, C., 2.
Bondi (New South Wales).—Süssmilch, C. A.
Bone-bed, Belgium.—Leriche, M., 5.
—— -beds, California.—Stoner, R. C.
Bonetti, F., *Obit.*—*See* Clerici, E.
Bonndorf (Baden).—Spiegelhalter, F.
Bonnifield Region (Alaska). — Capps, S. R.
Bootherium.—Allen, J. A.
Boowald (Solothurn). — Muehlberg, F., 2.
Boraciferous emanations, Tuscany. — Toso, P.
Boracite.—Bœggild, O. B.; Philippson, A., 3.
Bordeaux (Gironde).—Lambert, J.
Bordes (Loire).—Azéma, L.
Boreoscala.—Cossmann, A. E. M.
Borga, Gebel (Libyan Desert).—Leuchs, K., 5.
Borinage (Hainault).—Delecourt, J., *fil.*, 2; Stainier, X., 4, 5, & 7.
Boring-molluscs.—Barrow, A. L.
Borings, Aachen.—Jongmans, W. J., 2.
——, Alsace.—Fœrster, B.; Van Werveke, L., 4 & 9.
——, Bedfordshire.—Strahan, A., 6.

Borings, Belgium.—Bertiaux, A.; Cornet, J., 1 & 3; Delecourt, J., *fil.*; Fourmarier, P., 3 & 4; Halet, F., 1 & 3; Jongmans, W. J., 2; Malaise, C., 2; Mathieu, F. F., 5; Stainier, X., 5 & 6.
——, Bermuda.—Pirsson, L. V.
——, Bohemia.—Sokol, R., 2.
——, Buckinghamshire.—Davies, A. M., 2.
——, Cape Province.—Smith, G. W.; Young, A.
——, Copenhagen.—Bonnesen, E. P.
——, Durham.—Trechmann, C. T.
——, Egypt.—Hume, W. F.
——, England.—Strahan, A., 3.
——, France,—Dollfus, G. F., 8.
——, Germany (N.E.).—Jentzsch, C. A., 6.
——, Hesse.—Schottler, W., 2.
——, Holland. — Huffnagel, P.; Jongmans, W. J., 2; Klein, W. C., 2; Tesch, P., 1 & 2.
——, Hungary.—Papp, K. von, 3.
——, Kent. — Burr, M.; Dawkins, W. B.
——, London Basin.—Barrow, G., 4; Proctor, E.; Strahan, A., 4.
——, Lorraine.—Van Werveke, L., 5.
——, Mexico.—White, I. C.
——, New Guinea.—Hendring, O. G.
——, Nord.—Gosselet, J. A. A., 3.
——, Nottinghamshire & Yorkshire. — Gibson, W.
——, Ohio.—Condit, D.D., 2; Johnston, J.; Norton, W. H., 2.
——, Oklahoma.—Ohern, D. W., 4.
——, Po Valley.—Sacco, F., 6.
——, Saxony.—Kirschmann, W.
——, Shropshire.—Gibson, W., 2.
——, Silesian Coalfield.—Michael, R., 2.
——, South Australia.—Duffield, C. F.; Matthews, A. W.
——, Suffolk.—Boswell, P. G. H.; Strahan, A., 5.
——, Transvaal.—Draper, D., 2; Sawyer, A. R.
——, Tunis.—Pervinquière, L.
——, Victoria.—Chapman, F., 3; Hunter, S.
——, Vienna.—Toula, F., 2.
——, Westphalia.—Krusch, P., 3.
——, engineering geology &.—Delecourt, J., *fil.*
Born (Solothurn).—Muehlberg, F., 2.
Borneo.—Douglas, E. A., 2; Rutten, L.
—— (British North).—Evans, J. W., 2.
Bornholm I. (Baltic). — Hartz, N.; Præsent, H.; Ussing, N. V.
Bornite.—Wilson, A. W. G.
Borno (Lombardy).—Cacciamali, G. B.
Borsonia. — Boussac, J.; Cossmann, A. E. M., 2.
Borstal (Kent).—Dibley, G. E.
Boryslaw (Galicia). — Lachmann, R.; Noth, J., 3.
Bos.—Grossouvre, A. de, 3; Marsburg, K.; Stefano, G. de.
Bos d'Arros (Basses Pyrénées).—Stuart-Menteath, P. W.
Bosnia.—Katzer, F., 1 & 2; Nowak, E.
Bosnites.—Renz, C., 7.
Botany Bay (N.S.W.).—Andrews, E. C., 2.
Bothriogenys.—Schmidt, M.
Bothriolepis.—Woodward, A. S., 4.
Bothrodendron.—Johnson, T.
Botryogen.—Scharizer, R.
Botsfordia.—Walcott, C. D.
Bouches-du-Rhône (France).—Maury, E.; Repelin, J., 2; Roman, F., 2.
Bou-Denib (Morocco).—Douvillé, R., 6; Painvin, G. J.
Bouëina.—Stopes, M. C. C., 6.
Boulder-clay, Suffolk.—Moir, J. R., 5.
——. *See also* Drift, Glaciation, *&c.*
Boulonnais (France).—Sauvage, H. E.
Boundary-Fault Series.—Jehu, T. J.
Bourberouge (Normandy). — Anthoine, R., 3.
Bourges (Cher).—Dollfus, G. F., 8; Grossouvre, A. de, 2; Launay, L. de, 5.
Bourgueticrinus.—Brydone, R. M.
Bournes, Hertfordshire.—Hopkinson, J.
Bournonite.—Buecking, H., 2.
Bovard (Nevada).—Schrader, F. C.
Bovberg (Jutland).—Norregaard, E. M.
Bovey beds, Devon.—Ussher, W. A. E., 2.
Brabant (Belgium).—Cumont, G.; Doyen, A., 1 & 2; Halet, F., 3; Ledoux, A.; Leriche, M., 5.
—— (Holland).—Gracht, W. A. J. M. van W. van der, 2; Tesch, P.
Brač I. (Dalmatia).—Tućan, F., 3.
Brachiopoda, Cambrian.—Mansuy, H., 4; Walcott, C. D., 1 & 2.
——, Carboniferous.—Cramer, R.; Mansuy, H., 1 & 4; Mark, C. G.; North, F. J.; Stauffer, C. R.
——, Cretaceous.—Scupin, H.; Gillitzer, G.
——, Devonian.—Asselbergs, E., 1 & 2; Clarke, J. M., 3, 5, & 7; Gortani, M. 2; Klähn, H.; Kozlowski, R.; Lahee, F. H.; Leriche, M.; Lœwe, H.; Maillieux, E., 3; Mansuy, H., 4; Pellizzari, G.; Prosser, C. S., 1 & 4; Schuchert, C., 4; Shimer, H. W.; Stauffer, C. R.; Tolmachev, I. P.; Williams, H. S., 3.
——, Eocene.—Cossmann, A. E. M., 2; Dainelli, G., 3; Maury, C. J.; Vogl, V.
——, Jurassic. — Davies, A. M., 2; Mansuy, H., 1 & 2; Richardson, L., 3; Schöndorf, F., 3.
——, Oligocene.—Harder, P.
——, Ordovician. — Mansuy, H., 2; Perkins, G. H.; Postlethwaite, J.; Reed, F. R. C.
——, Permian.—Mansuy, H., 1, 2, & 4.
——, Permo-Carboniferous. —Yakovlev, N.
——, Pliocene.—Schaffer, F. X.

Brachiopoda, Silurian.—Chapman, F., 2; Mansuy, H., 2 & 4; Reed, F. R. C.; Stauffer, C. R.
——, Tertiary.—Chapman, F., 3.
——, Trias.—Bittner, A.; Frech, F., 4 & 5; Krumbeck, L.; Mansuy, H., 1 & 4; Renz, C., 7; Tommasi, A.
Brachiopod-limestone, Croatia.—Koch, F.
Brachycentrus.—Ulmer, G.
Brachyodus.—Cooper, C. F., 3; Schmidt, M.
Brachyostracon, gen. nov.—Brown, B., 3.
Brachyphyllum.—Bancroft, N.; Halle, T. G., 3; Seward, A. C., 6.
Brachypotherium.—Wegner, R. N.
Bradoria.—Mansuy, H., 4.
Bramwald (Hanover).—Kœnen, A. von.
Branchiopoda, Carboniferous.—Woodward, H., 3.
——, Trias.—Frech, F., 3.
Brancion (Saône-et-Loire).—Mayet, L., 2.
Brandenburg (Prussia).—Gagel, C., 5; Hess von Wichdorff, H.; Hucke, —; Meyer, E.
Branxton (N.S.W.).—Walkom, A. B.
Brasses Massif (Haute-Savoie).—Chaix, A.
Brassó Mts. (Hungary).—Éhik, J.; Podek, F., 2.
Braunite.—Kœchlin, R., 2.
Brazil.—Branner, J. C., 1 & 3; Clarke, J. M., 3 & 5; Freise, F., 3; Hatch, F. H.; Mawson, J.; Müller, H.; Gathmann, T.; Gœldi, E. A.; Jenkins, O. P.; Kozlowski, R.; White, D.; *see also* SÃO PAULO.
Brazilia.—Clarke, J. M., 5.
'Breakaways,' Western Australian granite.—Talbot, H. W. B.
Breccia, Ariège.—Longchambon, M., 3.
——, Carboniferous.—Anten, J., 3.
——, Durham.—Woolacott, D.
——, Finland.—Sederholm, J. J., 6.
——, Mull.—Bailey, E. B., 2.
—— (glacial).—Blaas, J.
——, the term.—Lawson, A. C.
Breccia-ore, Utah.—Butler, B. S.
Brecciation, W. Australia.—Blatchford, T.
Breisgau (Baden),—Stierlin, K., 2.
Brembana Valley (Lombardy).—Tommasi, A.
Brett Valley (Suffolk).—Boswell, P. G. H.
Briançon (Hautes-Alpes).—Kilian, C. C. W., 1, 3, 4, 8, & 9; Pussenot, C.; Termier, P., 4.
Bridport (Dorset).—Richardson, L., 4.
Brioude (Haute-Loire).—Abraham, A.; Glangeaud, P., 2.
Brisi Sandstone.—Heim, A.
Brissoides.—Cottreau, J.; Lambert, J.
Brissomorpha.—Schaffer, F. X.
Brissopneustes.—Cottreau, J.
Brissopsis.—Fourtau, R., 2; Lambert, J.
Brissospatangus.—Fourtau, R., 2.
Britanny.—Barrois, C., 1 & 2; Bureau, L.; Kerforne, F.; Priem, F., 3.
British Antarctic Expedition.—*See* Anon., 26.
British Association, geology at.—Dwerryhouse, A. R.
British Columbia.—Bailey, F.; Cairnes, D. D., 2; Camsell, C., 1 & 3; Daly, R. A., 3; Drysdale, C. W.; Evans, G. W.; Galloway, C. F. J.; Gregory, J. W.; Leach, W. W.; Le Roy, O. E.; McConnell, R. G.; Monckton, G. F.; Schofield, S. J.; Walcott, C. D., 3; *see also* BRITISH COLUMBIA, Bur. Mines.
British East Africa.—Parkinson, J.
British Museum, catalogue of Cretaceous plants.—Stopes, M. C. C., 6.
——, catalogue of Oxford Clay Reptilia.—Andrews, C. W., 3.
——, catalogue of species of *Pisidium.*—Woodward, B. B.
Bronteus.—Asselbergs, E.; Reed, F. R. C.
Brontosaurus.—Kiær, J.
Bronzite.—Kittl, E., 3.
Brookite.—Hawkins, A. C.
Broom, Loch (Ross-shire).—Peach, B. N., 3.
Broughton Series, Quebec.—Harvie, R.
Brown coal.—*See* Lignite.
Browse I. (Pacific).—Elschner, C.
Bruguieria.—Prever, P. L.
Brunswick.—Mestwerdt, A.; Riedel, A., 1 & 3; Speyer, C., 2; Stolley, E.
BRUSH, G. J., *Obit.*—*See* Anon., 3; Strahan, A., 2.
Brusinœla, gen. nov.—Andrussov, N.
Brussels (Brabant).—Cumont, G.
Brüttelen (Berne).—Gerber, E.
Bryactinus.—Hussakof, L.
Bryograptus.—Postlethwaite, J.
Bryozoa.—*See* Polyzoa.
Bucaniella.—Clarke, J. M., 5; Kozlowski, R.
Bucanopsis.—Clarke, J. M., 7.
Buccinofusus.—Vincent, E.
Buccinum.—Schaffer, F. X.; Shvetz, F. P.; Sokolov, D. N., 3.
Buchenstein Beds, Hungary.—Frech, F., 2.
Buchiola.—Clarke, J. M., 7; Prosser, C. S., 4.
Buckinghamshire.—Barrow, G., 4; Davies, A. M., 2.
BUCKLEY, E. R., *Obit.*—*See* Buehler, H. A.
Bückeberg (Hanover).—Albrecht, H.
Bufo.—Campana, D. del, 3.
Bugti Hills (Baluchistan).—Cooper, C. F.
Building-stone, Norway.—Oxaal, J., 2.
——, Persian Gulf.—Pilgrim, G. E.
——, artificial.—Cox, A. J., 2.

Buisse, La (Isère).—Germain, L.
Bu Kamez (Tripoli).—Vinassa de Regny, P. E., 2.
Bu Musa I. (Persian Gulf).—Pilgrim, G. E.
Bulgaria.—Bontschev, G.; Kern, J., 2; Scott, H. K., 2.
Bulimina.—Bagg, R. M.
Buliminus.—Germain, L.
Bulimorpha.—Mark, C. G.
Bulimus.—Cossmann, A. E. M., 2.
Bulla.—Orbigny, A. D. d'.
BULLEN, R. A., *Obit.*—*See* Strahan, A., 2.
Bullia.—Newton, R. B.
Bullinella.—Cossmann, A. E. M., 2.
Bundoora (Victoria).—Jutson, J. T.
Bundoran (Donegal).—Wright, W. B.
Bunter, Hesse.—Beetz, W.
Bunter Sandstone.—Henning, K. L.
—— ——, Waldeck.—Boden, K.
—— ——, water from.—Van Werveke, L., 8.
Burgundy (France).—Cayeux, L., 5.
Burham (Kent).—Dibley, G. E.
Buréia Basin (Amur).—Khlaponin, A.; Konstantov, S.; Malyavkin, S. F., 2; Yavorovskii, P. K.
Burma.—Bleeck, A. W. G.; Brown, J. C., 2 & 3; Cholmeley, R.
Burmesia.—Krumbeck, L.
Burmis (Alberta).—Dowling, D. B., 3; Leach, W. W.
Buru I. (D.E.I.).—Krumbeck, L.
Bushehr (Persia).—Pilgrim, G. E.
Bushey (Herts).—Kidner, H.
Buteshire.—Strahan, A.
Butte (Montana).—Rogers, A. F., 3.
Buurse Boring (Holland).—Huffnagel, P.
Bysmalites.—Schwarz, E. H. L., 2.
Bythocypris.—Ulrich, E. O., 3.
Bythotrephis.—Reed, F. R. C.

Caberea, nom. nov.—Maplestone, C. M.
Cabeza Gorda (Murcia).—Gálvez-Cañero, A. de.
Cadmium, oxides & sulphides of.—Mixter, W. G.
Cadoceras.—Douvillé, R.; Sokolov, D. N.
Cæcum.—Cerulli-Irelli, S.; Cossmann, A. E. M.
Cæsium.—Duffour, A., 2.
Cairngorm granite, Scotland.—Barrow, G., 3.
Calabria (Italy).—Baratta, M.; Stefani, C. de.
Cala Francese (Maddalena I.).—Lovisato, D., 2.
Calamine.—Butler, G. M.
Calamites.—Goode, R. H.; Gortani, M., 2.
Calamophyllia.—Speyer, C.
Calanda Mts. (Grisons).—Blumenthal, M.
Calcarina.—Prever, P. L.
Calceocrinidæ.—Ulrich, E. O., 2.
Calceocrinus.—Ohern, D. W., 3.
Calceola.—Mansuy, H., 4.
Calciovolborthite.—Hillebrand, W. F., 2.
Calcite.—Buttgenbach, H., 3.; Gwinnell, R. F.; Jahn, A.; Ledoux, A., 4; Muegge, O., 3.; Skinder, V.; Cesàro, G., 1 & 2.
Calcium-phosphate, basic.—Rogers, A. F., 5.
Calcium-vanadates.—Hillebrand, W. F., 3.
Caledonia Mine (Idaho).—Shannon, E. V.
Caledonite.—Ungemach, H., 5.
Calgary (Alberta).—Dowling, D. B., 4; Maclean, A., 2.
California (U.S.A.).—Bagg, R. M.; Clapp, W. B.; Davis, C. H., 1 & 2; Dickerson, R. E.; Harder, E. C.; Jordan, D. S.; Kramm, H. E.; Lee, C. H.; Lindgren, W.; Louderback, G. D.; McGlashan, H. D., 1-4; Merriam, J. C.; 1-3, 5, & 6; Ruckman, J. H.; Stock, C.; Stoner, R. C.; Taff, J. A.; Templeton, E. C.; Walter, M.; Wittich, E.; Wood, B. D., 1 & 2.
Callavia.—Walcott, C. D., 2.
Callianassa.—Brown, A. P.; Scupin, H.
Calliano Monferrato (Alessandria).—Craveri, M.
Calliderma.—Spencer, W. K.
Calliomphalus.—Boussac, J.
Calliostoma.—Dainelli, G.; Dickerson, R. E.
Callista.—Maury, C. J.
Callitris.—Fœrster, B.
Callograptus.—Hahn, F. F.
Callonema.—Stauffer, C. R.
Callotrypa.—Ulrich, E. O., 3.
Callovian, Hanover.—Lœwe, F.
——, Russia.—Tzuitovich, K. A.
——, Tyrol.—Trener, G. B.
Calmonia.—Clarke, J. M., 3 & 5.
Calostylis.—Reed, F. R. C.
Calpionella Limestone, Apennines.—Steinmann, J. H. C. G. G., 3.
Calvados (Normandy).—Douvillé, R.; Lecureur, A.
Calvert (Bucks).—Davies, A. M., 2.
Calyculina.—Germain, L.
Calymene.—Ohern, D. W., 5; Reed, F. R. C.; Pellizzari, G.
Calyptræa.—Maury, C. J.; Schaffer, F. X.
Calyptrophorus.—Maury, C. J.; Vincent, E.
Camarocrinus.—Schuchert, C., 3; Springer, F.
Camarophoria.—Mansuy, H., 4; Yakovlev, N.
Camarotœchia.—Clarke, J. M., 7; Mansuy, H., 4; Prosser, C. S., 1 & 4; Reed, F. R. C.; Schuchert, C., 4; Tolmachev, I. P.

Cambrian, America (N.).—Allan, J. A.; Brown, T. C., 2; Emmons, W. H., 2; Perkins, G. H.; Richardson, G. B.; Walcott, C. D., 1 & 3; Willis, B.
——, Belgium.—Anten, J.
——, Denmark,—Ussing, N. V.
——. Northern Territory of Australia.—Woolnough, W. G.
——, Quebec.—Dresser, J. A.; Raymond, P. E., 2; Young, G. A.
——, Scotland.—Campbell, R., 1 & 2; Jehu, T. J.; Peach, B. N., 3.
——, Shropshire.—Cobbold, E. S., 1 & 2.
——, Yunnan.—Deprat, J., 4; Mansuy, H., 4.
—— fauna, Scottish & N. American.—Peach, B. N.
—— fauna, sudden appearance of.—Evans, J. W.; Matthew, G. F.
—— glaciation, South Australia.—Nœtling, F.
——, lithology of.—Walther, J.
—— palæogeography.—Peach, B. N.
Cambridgeshire.—Hughes, T. McK.; Rastall, R. H., 1 & 2.
Camelopardalis.—Khomenko, I.
Camelops.—Merriam, J. C., 2.
Cameroons (Africa).—Henssen, W.
Camerothyris.—Bittner, A.
Camlad R. (Wales).—Wade, A.
Campania (Italy).—Cassetti, M.
Campanian, Charente.—Welsch, J., 2.
Campanile.—Boussac, J.; Leriche, M., 7; Vogl, V.
Campeloma.—Lee, W. T.
Campine (Belgium).—Harroy, J.; Leriche, M., 8.
Campo a Peri (Elba),—Millosevich, F., 2.
Campotosto (Abruzzo).—Pullè, G., 2.
Campsie Hills (Stirling).—Reoch, J. W.
Camptonectes.—Davis, C. H.; Ravn, J. P. J.; Scupin, H.
Camptonite, Virginia.—Watson, T. L., 2.
Canada, bibliography of geology of.—Reinecke, L.
——, coals of.—Davies, G. M.; Dowling, D. B.
——, International Congress in.—Termier, P., 2.
——, Laurentian Highlands of.—Wilson, M. E., 2.
——, mineral production.—*See* CANADA, Dep. of Mines.
——, mineral wealth of.—Wadsworth, M. E.
——, pyrites-deposits in.—Wilson, A. W. G.
——, Pre-Cambrian of Lake region.—Termier, P., 3.
Canadium.—*See* BRITISH COLUMBIA, Bureau of Mines.
Canary Is.—Gagel, C.
——, former connexion with Africa.—Chudeau, R.
Cancellaria.—Bajarunass, M. W.; Dickerson, R. E.; Harder, P.
Cancrinite.—Brauns, R., 2; Uhlig, J.
Candona.—Hucke, —.
Caninia.—Salée, A.
Canis.—Campana, D. del, 2.
Cañons, Cévennes.—Garstang, A. H.
——, erosion of.—Musy, M.
Capanne, Monte (Elba).—Aloisi, P.
Cape Breton I.—Gray, F. W.; Young, G. A.
—— earthquake.—McIntosh, D. S.
Cape of Good Hope Province (S. Afr.).—Lotz, H.; Shand, S. J.; Smith, G. W.; Du Toit, A. L.; *see also* CAPE OF GOOD HOPE.
Cape Verd Is.—Gagel, C.; Hennig, E., 8.
CAPELLINI, G., *Jubilee.*—*See* CAPELLINI, G.
Capri I.—Arlt, H.
Capsa.—Dollfus, G. F.
Capulus.—Cossmann, A. E. M., 2; Harder, P.
Carabinier anticline, Belgium.—Bertiaux, A.
Carbonaceous deposits, East Africa.—Evans, J. W., 4.
—— ——, Egypt.—Hume, W. F.
—— ——, New Mexico.—Foster, W.
Carbonates in rock-sections.—Heeger, W.
Carboniferous, Belgium.—Anthoine, R., 2; Fourmarier, P., 2; Halet, F., 2; Mathieu, F. F., 4; Stainier, X., 6.
——, Bohemia.—Petrascheck, W., 3.
——, Canada.—Bell, W. A., 1 & 2.
——, Cape Breton I.—Hyde, J. E., 2.
——, Carnic Alps.—Vinassa de Regny, P. E., 3.
——, Catalonia.—Pruvost, P., 4.
——, Caucasus.—Lisitzuin, K. I.
——, Cumberland, Durham, Northumberland, & Lancashire.—Smith, S.
——, Devon.—Reid, C., 3; Ussher, W. A. E., 2.
——, Donegal.—Wright, W. B.
——, French Alps.—Pussenot, C., 2.
——, Holland.—Molengraaff, G. A. F.; Tesch, P., 2.
——, Lake District.—Postlethwaite, J.
——, Mauritania.—Chudeau, R.
——, New Brunswick & Nova Scotia.—Young, G. A.
——, New South Wales.—Cotton, L. A.; Walkom, A. B., 2.
——, Nord.—Pruvost, P.
——, Nottinghamshire.—Gibson, W.
——, Ohio.—Condit, D. D.; Girty, G. H., 2; Mark, C. G.; Prosser, C. S.
——, Persia.—Stahl, A. F.
——, Russia.—Zavaritzky, A.

Carboniferous, Scotland. — Bosworth, T. O., 1 & 2; Cadell, H. M.; Macgregor, M.; Macnair, P.; Smellie, W. R.
——, Silesia (Lr.).—Cramer, R.
——, Styria.—Redlich, K. A.
——, Utah.—Boutwell, J. M.
——, Yorkshire. — Gibson, W.; Smith, S.
——, Yunnan.—Deprat, J., 4; Mansuy, H., 4.
——-Devonian unconformity, Mississippi Valley.—Keyes, C. R., 3.
Carcharias.—Jordan, D. S.
Carcharodon.—Priem, F.
Carcharoides.—Chapman, F., 7; Priem, F.
Cardiaster.—Scupin, H.
Cardioceras. — Douvillé, R.; Fischer, E., 2; Ravn, J. P. J.; Sokolov, D. N.
Cardiola.—Lœwe, H.
Cardiomorpha.—Clarke, J. M., 3 & 5.
Cardita.—Bittner, A., 2; Böcke, J. von; Boussac, J.; Frech, F., 4; Krumbeck, L.; Scupin, H.
Carditamera.—Maury, C. J.
Cardium.—Björlykke, K. O., 3; Boussac, J.; Brown, A. P.; Cossmann, A. E. M., 2; Dickerson, R. E.; Fœrster, B.; Harder, P.; Hofmann, K.; Jenkins, O. P.; Lee, W. T.; Maury, C. J.; Newton, R. B.; Orbigny, A. D. d'; Scupin, H.; Shvetz, F. P.; Vincent, E.
Carelmapu (Chile).—Felsch, J., 2.
Carex.—Fœrster, B.
Caricella.—Dickerson, R. E.; Maury, C. J.
Carinthia (Austria).—Kraus, M.
'Carixian,' the term.—Lang, W. D., 2.
Carlopago (Croatia).—Koch, F.
Carlsruhe (Baden).—Thuerach, H.
Carnarvonshire.—Rhodes, J. E. W.
Carnidia, gen. nov.—Bittner, A., 2.
Carniola (Austria).—Chaix, E., 5.
Carnites.—Frech, F., 3.
Carnotite.—Blair, A. A.; Lindgren, W.
——, new mineral in.—Kithil, K. L.
Carolina (U.S.A.).—Heyl, P. R.; James, C.
Caroline Is.—Marshall, P.
Caroni Series, Trinidad.—Guppy, R. J. L.
Carpathian Mts.—Kosmos, T.; Limanowski, M., 1 & 2; Michael, R., 4; Murgoci, G.; Oppenheim, P.; Reinhard, M.
Carpenteria.—Chapman, F., 3.
Carphosiderite.—Wittich, E., 2.
Carrara marble.—Blanquier, J., 2.
Cartagena (Murcia).—Villasante, F. B.
Carthage (Tennessee). — Kämmerer, P., 1 & 2.
Cartier (Ontario).—Coleman, A. P., 7; Parsons, A. L.
Caruichthys, gen. nov.—Broom, R., 5.
Carychium.—Cossmann, A. E. M., 2.
Caryocaris.—Postlethwaite, J.
Caryophyllia.—Felix, J.
Cascade Range (U.S.A.), surface-water.—Henshaw, F. F., 3.
Cascumpeque (Prince Edward I.). — Johnson, D. W., 2.
Casea.—Williston, S. W., 4.
Caspian district (Russia).—Andrussov, N.; Nachkii, A. D.
Casr Gharian (Tripoli). — Vinassa de Regny, P. E., 2.
Cassianella.—Frech, F., 4; Krumbeck, L.
Cassidaria & *Cassidea.*—Boussac, J.
Cassidulina.—Bagg, R. M.
Cassidulus.—Cottreau, J.; Fourtau, R., 2; Lambert, J.
Cassis. — Maury, C. J.; Schaffer, F. X.
Cassiterite, Congo Belge.—Buttgenbach, H., 3.
——, Dakota.—Duncan, G. S.
——, Transvaal.—McDonald, D. P.
Castañeda, Lake (Spain).—Halbfass, W., 2.
Castelgomberto (Venetia).—Oppenheim, P., 3.
Castor.—Dawson, C., 2; Orosz, A.
Catalonia (Spain).—Maier, W.; Pruvost, P., 4.
Cataract Limestone, Ontario. — Parks, W. A., 2.
Cataschisma.—Branson, E. B.
Catenicella.—Maplestone, C. M.
Cathcart (Victoria).—Hunter, S.
Catopygus.—Scupin, H
Catskill formation, Maryland.—Prosser, C. S., 5.
Cattaro (Dalmatia).—Bukowski, G. von, 2.
Caucasus. — Chaustoff, E.; Fersmann, A., 2; Gherasimov, A. P.; Hautpick, E. de, 2; Khomenko, I.; Langwagen, J.; Lisitzuin, K. I.; Rabot, C.; Rengharten, W. P., 1 & 2; Renz, C., 6; Robinson, V. N.; Shvetzov, M.; Sintzov, J. T.; Vittenburg, P. V.; Weber, V., 2.
Cautley (Yorkshire).—Marr, J. E.
Cave-earth, origin of.—Chaix, E., 5.
Caveradi (Grisons).—Gonnard, F.
Caverns & caves, Bavaria.—Hœrmann, K.
——, Derbyshire.—Mullins, E. H.
——, Hungary.—Hillebrand, E.; Schréter, Z.
——, Jura Mts.—Fournier, E.
——, Lancashire.—Jackson, J. W., 2.
——, Spain.—Bertrand i Cavaller, F.
——, Switzerland.—Beaud, —.
Cavern - deposits, Devon.—Ussher, W. A. E.
Caves, formation of.—Condit, D. D.
Caves, ice.—Miller, A. M.
Cebolla district (Colorado).—Singewald, J. T.
Cedroxylon.—Seward, A. C., 6.

Celebes (D.E.I.).—Abendanon, E. C.; Ahlburg, J., 2; Hotz, W.; Wunderlin, W.
Celestine.—Collot, L., 3.
——, Saxony.—Andrée, A.
Celtites.—Frech, F., 2,
Cement, experiments on.—Pacini, A. B.
—— materials, Illinois.—Bleininger, A. V.
—— ——, U.S.A.—Eckel, E. C.
Cemosphæra.—Schmidle, W.
Cenomanian, North Africa.—Painvin, G. J.
——, Silesia.—Scupin, H.
——, Switzerland.—Ganz, E.
Center Co. (Pennsylvania).—Brown, T. C., 2.
Centroceras.—Born, A.
Centronella.—Kozlowski, R.; Prosser, C. S., 4.
Cepatia.—Boussac, J.
Cephalogale.—Wegner, R. N.
Cephalopoda.—Deecke, W., 4.
——, Callovian.—Orbigny, A. D. d'.
——, Carboniferous.—Cramer, J.; Mansuy, H., 4; Pruvost, P., 4.
——, Cretaceous.—Douvillé, H., 2; Martelli, A., 3; Maury, C. J.; Nachkii, A. D.; Scupin, H.; Shvetzov, M.; Sintzov, I. T.; Spengler, E., 2.
——, Devonian.—Asselbergs, E.; Born, A.; Clarke, J. M., 3, 5, & 7; Collins, J. H., 2; Frech, F., 10; Ohern, D. W., 5; Prosser, C. S., 4; Stauffer, C. R.; Wedekind, R,
——, Eocene.—Cossmann, A. E. M., 2; Vincent, E.
——, Jurassic.—Bœhm, G., 1 & 2; Buckman, S. S., 1 & 2; Burckhardt, C., 2; Douvillé, R., 7 & 8; Favre, F.; Fischer, E., 2; Hoffmann, G.; Lory, P., 2; Ravn, J. P. J.; Renz, C., 6; Salfeld, H.; Sauvage, H. E.; Sokolov, D. N., 5; Spath, L. F.; Tzuitovich, K. A.; Vadász, M. E.
——, Liassic.—Frech, F., 9; Pia, J. von; Renz, C., 7; Toni, A. de.
——, Miocene.—Schaffer, F. X.
——, Ordovician.—Perkins, G. H; Reed, F. R. C.
——, Oxfordian.—Douvillé, R., 2.
——, Tithonian.—Steinmann, J. H. C. G. G., 4.
——, Triassic.—Arthaber, G. von; Diener, C., 1 & 2; Frech, F., 2, 3, & 5; Hohenstein, V.; Koken, E.; Krumbeck, L.; Mansuy, H., 2 & 4; Renz, C., 7; Tommasi, A.
——, Yorkshire drift.—Thompson, C.
Cepola.—Schubert, R. J.
Ceramopora.—Ulrich, E. O., 3.
Ceratiocaris.—Mansuy, H., 4.
Ceratites.—Arthaber, G. von; Diener, C.; Frech, F., 5; Renz, C., 7; Wagner, G., 3.
Ceratocephala.—Perkins, G. H.
Ceratocystis.—Bather, F. A., 4.
Ceratopora.—Swartz, C. K., 2.
Ceratorhinus.—Roman, F.; Wegner, R. N.
Ceraurinus.—Barton, D. C.
Ceraurus.—Raymond, P. E., 4.
Cercomya.—Scupin, H.
Cercosporites.—Stopes, M. C. C., 6.
Ceriopora.—Orbigny, A. D. d'; Wolfer, O.
Cerithidium.—Cerulli-Irelli, S.
Cerithiopsis.—Cerulli-Irelli, S.; Maury, C. J.
Cerithium.—Bajarunass, M. W.; Boussac, J.; Cerulli-Irelli, S.; Dainelli, G.; Dollfus, G. F.; Fœrster, B; Jenkins, O. P.; Maury, C. J.; Orbigny, A. D. d'; Schaffer, F. X.; Scupin, H.; Shvetz, F. P.; Sokolov, D. N., 3; Vincent, E.; Vogl, V.
Ceromya.—Scupin, H.
Cerussite.—Aloisi, P., 2; Duebigk, H.; Pogue, J. E.; Toborffy, Z. von.
Cervavitus, gen. nov.—Khomenko, I.
Cervocerus, gen. nov.—Khomenko, I.
Cervus.—Dawson, C., 2; Grossouvre, A. de, 3.
Cestobrissus.—Lambert, J.
Cetacea.—True, F. W.
Cetina Valley (Dalmatia).—Kerner, F., von, 1 & 2.
Cévennes (France).—Garstang, A. H.; Lévy, A. M., 4.
Ceylon.—Blake, G. S.; Chernik, G. P.; Jakob, A.
Chætetes.—Lœwe, H.; Mansuy, H., 4.
Chætopoda, Eocene.—Dainelli, G., 3.
Chainpur meteorite.—Cotter, G. de P.
Chalcedony.—Reoch, J. W.; Wetzel, W., 1 & 2.
Chalcocite enrichment.—Rogers, A. F., 3; Spencer, A. C.
Chalcopyrite.—Butler, B. S.; Ungemach, H.; Wilson, A. W. G.
Chalk, Bohemia.—Hibsch, J. E., 2.
——, Hampshire.—Brydone, R. M.; White, H. J. O.
——, Paris Basin.—Dollfus, G. F.
Chalk (Upper), divisions of.—Brydone, R. M., 2 & 4; Jukes-Browne, A. J., 6.
—— downs.—Bulman, G. W.
——, origin of phosphatic.—Cornet, J., 2
—— -pebbles, English Channel.—Jukes-Browne, A. J., 5.
Chalosse (Landes).—Cottreau, J.
Chama.—Boussac, J.
Chambéry (Savoy).—Révil, J.
Chamelea.—Newton, R. B.
Chamoussetia, gen. nov.—Douvillé, R.
Champagne (France).—Laurent, J.
Champlain, Lake (Vermont).—Perkins, G. H.
Champs-blancs (Dordogne).—Peyrony, D.
Chapelle-aux-Saints (Corrèze).—Boule, M.
Chara.—Fœrster, B.

CHARCOT'S Antarctic Expedition. — Gourdon, E.
Charente (France).—Bordage, E.; Martin, H.; Welsch, J.
Charleroi (Hainault).—Mathieu, F. F., 4.
Charleville (Ardennes).—Dollfus, G. F., 6; Watrin, N.
Charmouth (Dorset).—Lang, W. D., 2.
'Charmouthian,' the term. — Jukes-Browne, A. J., 8.
Chartreuse, Grande (Isère).—Hollande, D.
Charmops.—Stauffer, C. R.
Châteaudun (Eure-et-Loir).—Dollfus, G. F., 8.
Chattanooga Shale, Alabama.—Butts, C.
Cheiloceras.—Born, A.
Cheilotoma.—Kittl, E. A. L., 2.
Cheirocrinus.—Bather, F. A., 4.
Cheiruridæ.—Barton, D. C.
Cheirurus.—Reed, F. R. C.
Chellala (Algeria).—Joly, A., 2.
Chelles (Seine-et-Marne).—Lemoine, P., 5.
Chelone.—Stefano, G. de, 2.
Chelonia.—Dollo, L.
Cheltenham (Gloucester). — Richardson, L.
Chelyconus.—Schaffer, F. X.
Chemical constitution, crystal form &.—Fedorow, E. von, 1–3.
—— denudation. — Smyth, C. H., *fil.*, 2.
Chemnitzia.—Brown, A. P.; Ravn, J. P. J.
Chenopus.—Boussac, J.; Cossmann, A. E. M., 2.
Cher (France).—Dollfus, G. F., 8; Grossouvre, A. de, 1–3 & 5.
Chernigov (Russia). — Chirvinskii, P. N.
Chert, Devon.—Ussher, W. A. E., 2.
——, Philippine Is.—Fanning, P. R.
Chertsey (Surrey). — Bromehead, C. E. N.
Cheshire.—Reid, C.; Strahan, A.
Chessylite.—Ungemach, H.
Chiana, Val di (Tuscany).—Campana, D. del, 2.
Chihuahua (Mexico). — Dégoutin, N.; Paredes, T.; Wittich, E., 2 & 5.
Chile.—Bruggen, J.; Felsch, J., 1–3; Fuenzalida, J. del; Gale, H. S.; Michado, M. R.; Ossa, B. D.; Ossa, I. D.; Sundt, F. A.; Thiel, H.; Vattier, C., 1–3; Vogel, M.; Yunge, G.
Chillagite, new mineral.—Smith, C. D.; Ullmann, A. T.
Chiloe I. (Chile).—Felsch, J., 2.
Chilotrypa.—Ulrich, E. O., 3.
China.—Blackwelder, E.; Cremer, —; Deprat, J., 4 & 5; Drake, N. F.; Inouye, K., 1 & 2; Mansuy, H., 4; Pellizzari, G.; Read, T. T.; Scrivenor, J. B., 2; Williams, N. T.
China-clay, Devon.—Ussher, W. A. E.
China Stone.—Coon, J. M.
Chiolite.—Böggild, O. B., 2.
Chione.—Maury, C. J.
Chiropteris.—Arber, E. A. N., 4.
Chitina Valley (Alaska).—Brookes, A. H., 2.
Chiton.—Gortani, M., 2.
Chlamys.—Boussac, J.; Scupin, H.; Woods, H.
Chlorite-rocks, Piedmont.—Schuermann, E., 2.
—— ——, Riesengebirge.—Berg, G.
—— -schist, Belgium.—Doyen, A., 2.
Chloritoid rocks, Switzerland.—Niggli, P.
Chomataster, gen. nov.—Spencer, W. K.
Chonaxis.—Mansuy, H.
Chondrite.—Berwerth, F., 2.
Chondrites.—Stopes, M. C. C., 6.
Chondritic meteoric stones.—Prior, G. T., 2.
Chondrula.—Germain, L.
Chonetes.—Chapman, F., 2; Clarke, J. M., 3, 5, & 7; Cramer, R.; Kozlowski, R.; Lahee, F. H.; Leriche, M.; Mansuy, H., 2 & 4; Mark, C. G.; Prosser, C. S., 1 & 4; Schuchert, C., 4; Stauffer, C. R.; Yakovlev, N.
Choneziphius.—Bell, A., 2.
Chonostrophia.—Schuchert, C., 4.
Chorisastrea.—Speyer, C.
Christiania.—Reed, F. R. C.
Christiania (Norway).—Holtedahl, O.; Reusch, H., 9; Werenskiold, W.
Chromiferous iron-ores, Greece.—Scott, H. K.
Chromite, Norway.—Rekstad, J., 2.
——, Quebec.—Harvie, R.
——, Ural Mts.—Duparc, L., 4.
Chromitite.—Yovitchitch, M. Z.
Chrysaora.—Orbigny, A. D. d'.
Chrysoberyl.—Schetelig, J.
Chrysocolla. — Buttgenbach, H., 5; Ford, W. E., 3.
Chuia R. district (Siberia).—Demin, A., 2; Preobrazhenskii, P. I.
Chuquicamata (Chile).—Sundt, F. A.
Churfirsten (Switzerland).—Heim, A.
Chutor Lyssow (Don Prov.).—Dombrovski, B.
Cidaris.—Bather, F. A.; Dainelli, G., 2; Lambert, J.; Pia, J. von.
Cimolite.—Stremme, H.
Cindre, Mt. (Rhône).—Assada, A.
Cinnabar.—Toso, P.; Veen, A. L. W. E. van der.
Cinnamomum.—Fœrster, B.
Cinulia.—Scupin, H.
Ciply (Hainault).—Cornet, J., 2.
Cipolin marble, Madagascar.—Lacroix, A. F. A., 8.
Cirques, British Columbia.—Cairnes, D. D., 2.
——, France.—Martin, D.
Cirripedia, Chalk.—Scupin, H.; Withers, T. H.
——, Devonian.—Savage, T. E.

Cirripedia, Miocene.—Withers, T. H., 2.
——, Tertiary.—Dollfus, G. F.
Cirsochilus.—Dainelli, G.
Cirsotrema.—Cossmann, A. E. M.; Harder, P.
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Cistella.—Cossmann, A. E. M., 2.
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Clacton-on-Sea (Essex).—Warren, S. H., 2.
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Clanculus.—Boussac, J.; Dainelli, G.
Clandon (Surrey).—Young, G. W.
Clappe Massif (Aude).—Doncieux, L.
Claraia.—Frech, F., 5.
Clarence I. (S. Am.).—*See* ‘BELGICA,’ Expéd.
Clarence Valley (N.Z.).—Cotton, C. A., 2.
Clarkella.—Walcott, C. D.
Clathrodictyum.—Gortani, M.
Clathroscala.—Cossmann, A. E. M.; Harder, P.
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——, Ohio.—Condit, D. D.
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—— & argillaceous rocks, chemistry of.—Linck, G.
—— -galls.—Smellie, W. R.
—— -silicates, colloid.—Gans, R.
——. *See also* Fire-clay & Pottery-clay.
Clay-with-flints, Hampshire. — White, H. J. O.
Claygate Beds, Kent.—Leach, A. L., 2.
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Cleavage.—Lohest, M., 3.
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Clemmys.—Wegner, R. N.
Cleonus.—Wickham, H. F.
Clermont-Ferrand (Puy-de-Dôme).—Mouret, G.
Clethra.—Nathorst, A. G., 2.
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Climaconeura, gen. nov.—Pruvost, P., 5.
Climate, desert features &.—Kessler, P., 2.
——, erosion &.—Azzi, G., 3.
——, fossil floras &.—Nathorst, A. G.
——, geological.—Burckhardt, C.
——, interglacial.—Frech, F., 6.
——, physiography &.—Penck, A., 3.
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——, shifting of poles & changes of.—Chirvinskii, P. N., 4.
——, variations of.—Sernander, R., 2; Woekof, A.
——, volcanoes &.—Abbot, C. G.
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Clinozoisite.—Millosevich, F., 2.
Clinuropsis.—Vincent, E.
Clionites.—Mansuy, H., 4.
Clionolithus.—Clarke, J. M., 3 & 5.
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Clitunno R. (Umbria).—Fiorentin, L.; Verri, A.
Clorippe.—Cockerell, T. D. A., 2.
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Clypeaster.—Boussac, J.; Lambert, J., 2; Lovisato, D., 3; Schaffer, F. X.
—— *scutellatus.*—Cottreau, J., 2.
Cnemidium.—Orbigny, A. D. d'.
Coahuila (Mexico). — Haarmann, E.; Van Horn, F. R., 2.
Coal, Abyssinia.—Dunn, S. C.
——, Africa (S.W.).—Range, P.
——, Alaska.—Capps, S. R., 1 & 2.
——, Antarctica.—David, T. W. E.
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——, Ardennes. — Dollfus, G. F., 6; Watrin, N.
——, Argentina.—Hermitte, E.
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——, Baden.—Ziervogel, H.
——, Belgium.—Renier, A., 3.
——, Borneo.—Evans, J. W., 2.
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——, Cape Province.—Du Toit, A. L.
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——, Congo Belge.—Lohest, M.; Renier, A., 2.
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——, Dutch East Indies.—Douglas, E. A., 2.
——, England & Wales.—Strahan, A.
——, France.—Defline, M.
——, Hesse.—Steuer, A., 2.
——, Holland.—Clement, —; Gracht, W. A. J. M. van W. van der.
——, Honduras.—Montis, H. de.
——, Hungary.—Papp, K. von, 5.
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——, Indo-China.—Lantenois, H.
——, Japan.—Inouye, K., 6; Iwasaki, C.
——, Korea.—Inouye, K., 4.
——, Lanarkshire.—Macgregor, M.
——, Madagascar.—Bonnefond, F.
——, Malay States.—Evans, J. W., 3.
——, Manchuria.—Inouye, K., 5.
——, Mesopotamia & Turkey.—Dominian, L.
——, Mexico.—Hill, R. T.; Schwarz, M.
——, Missouri.—Hinds, H.
——, New Brunswick & Nova Scotia.—Gray, F. W.
——, Newfoundland.—Howley, J. P.; Symons, B., 3.
——, New South Wales.—Pittman, E. F.
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——, Nigeria.—Evans, J. W., 5.
——, Norway.—Reusch, H., 8.
——, Nyasaland.—Evans, J. W., 6.
——, Ohio.—Condit, D. D.
——, Persia.—Rabino, H. L.
——, Philippine Is.—Dalburg, F. A.; Smith, W. D., 2; *see also* PHILIPPINE IS.
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——, Queensland.—Dunstan, B.
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——, Rumania.—Mrazec, L.; Tănăsescu, I., 2.
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——, Saxony.—Pietzsch, K.
——, Scotland.—Strahan, A.
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——, Shropshire.—Gibson, W., 2.
——, Siam.—Heal, J. N.
——, Siberia.—Konstantov, S.; Krasnopolski, A., 2.
——, Silesia.—Michael, R., 5.
Coal, South Africa.—*See* SOUTH AFRICA, Dept. of Mines.
——, South Australia.—Ward, L. K., 4.
——, Spitsbergen.—Högbom, B.
——, Sweden.—Erdmann, E.
——, Switzerland.—*See* SWITZERLAND, Schweiz. Geol. Komm.
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——, Turkestan.—Weber, V.
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——, Yukon.—Cairnes, D. D.
——, Yunnan.—Deprat, J., 4.
——, carbonic acid &.—Thiel, G.
——, natural history of.—Lomax, J.
——, origin of.—Dachnowski, A.
——, oxidation of.—Cox, A. J.; Mahler, P.
——. *See also* Anthracite, Lignite, *&c.*
Coal-bearing regions, classification of.—Smith, G. O., 2.
—— -beds, formation of.—Stevenson, J. J.
—— ——, roots in underclays of.—White, D., 2.
Coal-Measures, Belgium.—Bertiaux, A.; Mathieu, F. F., 5; Renier, A.; Stainier, X., 2, 4, & 7.
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—— ——, plants of.—Dachnowski, A.
—— ——, red & grey beds in.—Stutzer, O., 3.
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Coasts, New South Wales.—Andrews, E. C., 2.
——, Prussia.—Brückmann, R., 1 & 2.
——, geology of.—Hewitt, W.
Cobalt, Idaho.—Umpleby, J. B.
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Cochlespira.—Vincent, E.
Cocos-Keeling I.—Wood-Jones, F.
Codiaceæ, Tertiary.—Glück, H.
Cœlentera.—*See* Graptolitoidea, Anthozoa, *&c.*
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Cœlopis.—Frech, F., 4.
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Cœlospira.—Clarke, J. M., 5.
Cœlostylina.—Hohenstein, V.; Kittl, E. A. L., 2; Krumbeck, L.
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—— ——, Hungary.—Liffa, A., 1 & 2.
—— ——, Ontario.—Adams, F. D., 5.
—— ——, Riesengebirge.—Berg, G.
—— ——, Switzerland.—Cornelius, H. P.; Königsberger, J., 2.
—— ——, zones of.—Stewart, C. A., 2.
Contact-rocks, Alps.—Königsberger, J., 8.
—— ——, Devon.—Reid, C., 3.
—— ——, Finland.—Sederholm, J. J., 6.
—— ——, Moravia.—Suess, F. E., 2.
—— ——, Piedmont.—Colomba, L.
—— ——, secondary silicate-zones in.—Kemp, J. F., 5.
Continents, development of.—Arldt, T., 1 & 2; Chamberlin, T. C., 3; Dyer, Sir W. T. T.
Continents, rejuvenation of.—Chamberlin, T. C., 3.
Conularia.—Clarke, J. M., 3, 5, & 7; Kozlowski, R.; Postlethwaite, J.; Prosser, C. S., 4; Zelizko, J. V.
Conularida, Devonian. — Ohern, D. W., 5.
Conus.—Boussac, J.; Cossmann, A. E. M., 2; Dainelli, G.; Dollfus, G. F.; Schaffer, F. X.
Cook Is.—Marshall, P.
Coolgardie Goldfield (W. Australia).—Blatchford, T.; Simpson, E. S.; Talbot, H. W. B.; Woodward, H. P.
Coon Butte (Arizona).—Keyes, C. R., 2.
Coorongite.—Ward, L. K.
Copenhagen (Denmark). — Bonnesen, E. P.
Copiapite.—Manasse, E.; Scharizer, R.
Copper, Africa (German East).—Tornau, F.
——, Alaska.—Brooks, A. H., 2; Moffit, F. H.
——, Argyllshire.—Clough, C. T.
——, Arizona.—Lindgren, W.; Stewart, C. A.
——, Assam.—Brown, J. C.
——, British Columbia.—Cairnes, D. D., 2.
——, Bulgaria.—Kern, J., 2; Scott, H. K., 2.
——, Canada.—Tyrrell, J. B., 2; *see also* CANADA, Dep. of Mines, 3.
——, Caucasus.—Chaustoff, E.; Hautpick, E de, 2.
——, Chile.—Sundt, F. A.; Thiel, H.
——, China.—Read, T. T.
——, Commander I.—Morozewicz, J.
——, Congo Belge.—Guillemain, C., 2; Gwyn-Williams, R. H.; Stutzer, O., 5.
——, Devon.—Carus-Wilson, C., 3 & 5.
——, German S.W. Africa.—Range, P.; Rimann, E.
——, Germany.—Boden, K.
——, Japan.—Katō, T., 2.
——, Mexico.—Van Horn, F. R., 1 & 2.
——. Novaya Zemlya.—Voit, F. W.
——, Persia.—Stahl, A. F.
——, Rammelsberg.—Wolff, —.
——, Serbia.—Lazarevič, M., 2.
——, Siberia.—Edelstein, J. S., 2.
——, Tasmania.—Gilbert, C. G.
——, Tyrol.—Granigg, B., 2.
——, Ural Mts.—Turner, H. W.
——, U.S.A.—Ingalls, W. R.
——, Yunnan.—Deprat, J., 4.
Copper R. Basin (Alaska).—Tarr, R. S.
Coppermine R. district (Canada).—Tyrrell, J. B., 2.
Coptechinus.—Dainelli, G., 2.
Coral-reefs.—Ball, J., 5; Crossland, C., 1 & 2; Davis, W. M., 1-4.
—— ——, Cocos-Keeling I. — Wood-Jones, F.

Coral-reefs, Devonian.—Maillieux, E., 9.

—— ——, phosphatic deposits of.—Elschner, C.

Corals.—*See* Anthozoa.

Corallian, Germany.—Nahnsen, M.; Schöndorf, F., 2.

——, Tunisia.—Spath, L. F.

Corbières (France).—Durand, J.

Corbis.—Böckh, J. von; Boussac, J.; Hofmann, K.

Corbula.—Björlykke, K. O., 3; Boussac, J.; Brown, A. P.; Harbort, E., 3.; Harder, P.; Jenkins, O. P.; Lee, W. T.; Maury, C. J.; Vincent, E.

Cordaites.—Zalessky, M. D.

Cordania.—Ohern, D. W., 5.

Cordiera.—Dickerson, R. E.

Cordierite-hornfels, Transvaal.—Schwarz, E. H. L.

—— -schist, Riesengebirge.—Berg, G.

—— -rocks, Japan.—Katō, T.

Cordillera, North American.—Daly, R. A., 2; Schofield, S. J., 2.

Cordilleran Ice-sheet (U.S.A.).—Stewart, C. A., 3.

Corinth (Greece).—Depéret, C., 2; Eginitis, D.; Négris, P., 5.

Cornard, Little (Suffolk).—Hewitt, H. D.

'Cornish Stone.'—Coon, J. M.

Cornucardia, nom. nov.—Koken, E.

Cornulites.—Ohern, D. W., 3; Reed, F. R. C.

Cornuspira.—Fœrster, B.

Cornwall.—Arnold, E. L.; Collins, J. H., 1 & 2; Coon, J. M.; Flett, J. S., 2 & 3: Green, U.; Hill, J. B.; Reid, C.; Russell, A., 2.

Coronura.—Stauffer, C. R.

Corrèze (France).—Boule, M.

Corsica.—Caziot, E.; Maury, E., 2.

Corundum, Canada.—Baker, M. B.

——, Naxos I.—Papavasiliou, S. A.

——, in basalt.—Schuermann, E.

Corundum-rocks, Catalonia.—Maier, W.

—— ——, Ontario.—Adams, F. D., 5.

Corycium.—Sederholm, J. J.

Corynepteris.—Gothan, W., 2.

Cosmoceras.—Douvillé, R., 2; Ravn, J. P. J.; Tzuitovich, K. A.

Cosmoceratids, suture-line of.—Douvillé, R., 9.

Cosne (Nièvre).—Jodot, P., 3.

Costa Rica.—Sapper, K.

Cotentin (Normandy).—Bigot, A.; Priem, F., 3.

Cothurnocystis, gen. nov.—Bather, F. A., 4.

Cotteswold Hills.—Knight, H. H.

—— ——, bibliography of geology of.—Austin, R.

Cougar formation.—Daly, R. A., 2.

Courmayeur (Piedmont).—Ceruti, G.

Coustouges (Pyrénées).—Doncieux, L., 5.

Couvin (Namur).—Fourmarier, P.; Maillieux, E., 2 & 8.

Couvinian, Belgium.—Anten, J., 2; Maillieux, E., 4.

Covada mining district (Washington).—Weaver, C. E., 2.

Covellite.—Butler, B. S.

Cracow (Galicia).—Rehbinder, B. von.

Craftsbury (Vermont).—Richardson, C. H.

Crag.—*See* Pliocene.

Craigeven Bay (Kincardine).—Campbell, R., 2.

Craigmontite.—Adams, F. D., 5.

Crania.—Chapman, F., 2; Cossman, A. E. M., 2; Dainelli, G., 3; Pellizzari, G.; Clarke, J. M., 7; Prosser, C. S., 4.

Craspedodon, gen. nov.—Bittner, A., 2.

Crassatella.—Boussac, J.; Oppenheim, P., 3; Scupin, H.

Crassatellites.—Brown, A. P.; Maury, C. J.; Woods, H.

Crassostrea.—Jaworski, E.

Crateraster, gen. nov.—Spencer, W. K.

Craterellina, gen. nov.—Ulrich, E. O., 3.

Craticularia.—Scupin, H.

Cratoparis.—Wickham, H. F.

Crawton Group.—Campbell, R.

Creazzo (Venetia).—Oppenheim, P., 3.

Credit R. (Ontario).—Parks, W. A., 2.

CREDNER, H., *Obit.*—*See* Partsch, J.

Creechbarrow (Dorset).—Bloomfield, A. H.; Keeping, H.

Cremacrinidæ.—Ulrich, E. O., 2.

Crenaster.—Orbigny, A. D. d'.

Crenella.—Scupin, H.; Woods, H.

Cretaceo-Tertiary, New Zealand.—Marshall, P., 2 & 3.

Cretaceous, Albania.—Martelli, A.

——, America (N.).—Willis, B.

——, Arabian Desert.—Cortese, F.

——, Anatolia.—Frech, F., 9.

——, Austria.—Geyer, G., 3.

——, Bavaria.—Gillitzer, G.

——, Belgium.—Cornet, J., 3.

——, Bohemia.—Petrascheck, W., 1 & 3.

——, Brazil.—Jenkins, O. P.; Mawson, J.

——, British Columbia.—McConnell, R. G.

——, Caspian district.—Nachkii, A. D.

——, Caucasus.—Renz, C., 6; Sintzov, J. T.

——, Chile.—Brüggen, J.; Felsch, J.

——, Colorado.—Lee, W. T.

——, Denmark.—Bonnesen, E. P.; Ussing, N. V.

——, Dobrudsha.—Simionescu, I., 3.

——, Egypt.—Ball, J., 2.

——, France.—Dalloni, M., 4; Doncieux, L., 1 & 2; Gosselet, J. A. A., 1 & 3; Kilian, C. C. W., 2 & 5; Maury, E.

——, German E. Africa.—Bœhm, J.; Hennig, E., 5.

Cretaceous, Germany.—Marées, F. von.
——, Greenland.—Ravn, J. P. J.
——, Holland.—Gracht, W. A. J. M. van W. van der, 2; Klein, W. C., 4; Molengraaff, G. A. F.
——, Hungary.—Lóczy, L. von, *fil.*; Szontagh, T. von, 2.
——, Japan.—Yabe, H.
——, Mexico.—Haarmann, E.
——, Northern Territory of Australia.—Woolnough, W. G.
——, Persia.—Pilgrim, G. E.; Stahl, A. F.
——, Russia.—Borisyak, A. A.; Prigorovskii, M.
——, Scania.—Hennig, A.
——, Silesia.—Scupin, H.
——, South Africa.—Du Toit, A. L.
——, Spain.—Jiménez de Cisneros, D.
——, Switzerland. — Hauswirth, W.; Heim, A.; Keller, W. A.; Rollier, L.
——, Tierra del Fuego.—Felsch, J.
——, Transkei.—Du Toit, A. L.
——, Tripoli.—Stefani, C. de, 5.
——, Tunis.—Pervinquière, L.
——, Tyrol.—Kerner, F. von.
——, Umbria.—Fiorentin, L., 2.
——, Ural Mts.—Tikhonovich, N. N., 2.
——, comparison of lithological facies of European.—Gracht, W. A. J. M. van W. van der, 2.
—— (floor of), Bohemia.—Sokol, R., 2.
Cretaceous system.—Frech, F.
—— ——, variations in stratigraphy of.—Stanton, T. W.
——. *See also* Aptian, *&c.*
Cribrilina.—Brydone, R. M., 3.
Cricetodon.—Wegner, R. N.
Crimea.—Borisyak, A. A.; Chirvinskii, P. N., 5; Popov, S. P.; Shvetz, F. P.; Tzuitovich, K. A.
Crinanite.—Tyrrell, G. W.
Crinoidea, Carboniferous. — Bather, F. A., 3; Stauffer, C. R.
——, Cretaceous.—Wegner, R. N.
——, Devonian. — Lœwe, H.; Ohern, D. W., 3; Springer, F.
——, Eocene.—Dainelli, G., 3.
——, Jurassic. — Orbigny, A. D. d'; Remes, M., 2.
——, Miocene.—Schaffer, F. X.
——, Palæozoic.—Ulrich, E. O., 2.
——, Permian.—Mansuy, H.
——, Silurian.—Reed, F. R. C.
——, Tertiary.—Chapman, F., 3.
——, Trias.—Bather, F. A.; Krumbeck, L.
——, position of Plicatocrinidæ in. — Clark, A. H.
Criocardium.—Jenkins, O. P.
Crisia.—Canu, F.
Crisposcala.—Boury, E. de.
Cristellaria.—Bagg, R. M.
Cristobalite.—Brun, A., 2; Endell, K., 4.
Croatia.—Kadić, O., 1 & 2; Koch, F.; Schubert, R. J., 2; Terzaghi, K. von; Tucan, F., 5–7; Vogl, V., 1 & 2.
Croatian - Hungarian coastal region.—Kadić, O., 2.
Crocidolite.—Doht, R.
Crocodilia.—Borisyak, A. A.
Crocoite.—Ranfaldi, F., 2.
Cromarty.—Peach, B. N., 3; Seward, A. C., 6.
Cross - bedding, Dakota.— Winchester, D. E.
—— ——, Wichita Sandstones. — Udden, J. A., 2.
Crouch R. (Essex).—Reader, F. W.
Crown Point (N.Y.).—Barker, E. E.
Croydon Bourne (Surrey).—Barrow, G., 4; Whitaker, W.
Cruciella, gen. nov.—Koken, E.
Cruratula.—Frech, F., 5.
Crustacea.—*See* Trilobita, Cirripedia, *&c.*
Cryolite.—Bœggild, O. B., 1 & 2.
Cryphæus.—Asselbergs, E.; Clarke, J. M., 3 & 5; Kozlowski, R.; Prosser, C. S., 4.
Cryptocœnia.—Speyer, C.
Cryptoconus.—Boussac, J.
Cryptodon.—Harder, P.
Cryptograptus.—Postlethwaite, J.
Cryptonella.—Clarke, J. M., 5 & 7.
Cryptorhynchus.—Wickham, H. F.
Cryptosellus.—Petrunkevich, A.
Cryptospira.—Cossmann, A. E. M., 2.
Cryptostemma.—Petrunkevich, A.
Cryptozoon.—Perkins, G. H.
Crystal form, chemical constitution &.—Fedorow, E. von, 1–3.
Crystal-zones, angles & indices in.—Smith, G. F. H., 2.
Crystallochemical analyses. — Fedorow, E. von, 1 & 3.
Crystallographic models.—Muegge, O., 2; Phillips, A. H.; Wuelfing, E. A.
Crystallography.—Haag, F., 2.
——, morphological.—Panebianco, H.
—— of organic substances.—Duffour, A.
Crystals, change of angles with temperature.—Wright, F. E., 5.
——, chemical changes in.—Rinne, F.
——, cubic system of.—Haag, F.
——, deformed.—Lachmann, R.
——, formation in colloids.—Mary, A., 1 & 3.
——, gnomonic projection.—Bœke, H E.
——, gravitation - anisotrophy in. — Muegge, O.
——, hair-shaped.—Muegge, O., 4.
——, measurement of. — Ellsworth, H. V., 2.
——, modification of form in artificially coloured.—Gaubert, P., 3.
——, optical properties of.—Ambronn, A.; Becke, F. J. K., 5; Berek, M.; Collingridge, H.; Kämmerer, P., 3; Kraus, E. H.; Schwietring, F.; Tertsch, H.; Viola, C.
——, structure of.—Cesàro, G., 3; Johnsen, A.; Tutton, A. E. H.

Crystals, twinning of.—Evans, J. W., 9.
——, X-rays & structure of.—Friedrich, W.; Wulff, G., 1 & 2.
Cseszte (Hungary).—Horusitzky, H.
Csiklovabánya (Hungary).—Liffa, A., 2.
Ctenis.—Seward, A. C., 1, 2, & 4.
Ctenobolbina.—Ulrich, E. O., 3.
Ctenodonta.—Branson, E. B.; Frech, F., 3 & 4; Reed, F. R. C.
Ctenopterus.—Clarke, J. M., 6.
Ctenopyge.—Lake, P.
Ctenostreon.—Hofmann, K.
Cuba.—Jennings, O. E.; Torre, C. de la, 1 & 2
——, Tertiary mammalia of.—Matthew, W. D.
Cucaracha Slide (Panama).—Macdonald, D. F.
Cucigliana (Tuscany).— Campana, D. del, 3.
Cucullæa.—Bœhm, G.; Fischer, E., 2; Maury, C. J.; Rollier, L., 2; Scupin, H.
Cucullaria.—Vincent, E.
Cucullella.—Asselbergs, E.; Leriche, M.
Cuesmes (Hainault).—Cornet, J.
Culebra Cut (Panama).—Cornish, V.; Macdonald, D. F.
Cullison meteorite.—Merrill, G. P., 4.
Culm, Devon.—Reid, C., 3; Ussher, W. A. E., 2.
——, Westphalia.—Zimmermann, E.
Cumberland.—Green, J. F. N.; Smith, S.
—— (Maryland).—Gidley, J. W., 2.
Cunearca.—Maury, C. J.
Cuneocorbula.—Brown, A. P.; Maury, C. J.
Cuon.—Grossouvre, A. de, 3.
Cupressinoxylon.—Seward, A. C., 2.
Cuprodescloizite.—Wells, R. C., 2.
Cupulospongia.—Orbigny, A. D. d'.
Curculioides.—Petrunkevich, A.
Current-bedding.—Grabau, A. W., 4.
Curticia.—Walcott, C. D.
Cuspidaria.—Bittner, A., 2; Frech, F., 3.
Custerite, new mineral.—Umpleby, J. B., 3.
Cuzco (Peru).—Bingham, H.; Eaton, G. F.; Gregory, H. E., 2.
Cyanite.—Foslie, S.
Cyathaspis.—Ohern, D. W., 5.
Cyathaxonia.—Carruthers, R. G.
Cyathocidaris.—Lambert, J., 2.
Cyathodonta.—Brown, A. P.
Cyathophora.—Speyer, C.
Cyathophyllum.—Gortani, M., 2; Lœwe, H.; Mansuy, H., 1 & 4; Swartz, C. K., 2.
Cybele.—Postlethwaite, J.
Cycadeoidea.—Nathorst, A. G., 2.
Cycadeospermum.—Krasser, F.
Cycadocarpidium.—Nathorst, A. G., 2.
Cycadofilices.—Gothan, W., 2; Gordon, W. T.
Cycadolepis.—Halle, T. G., 3.
Cycas.—Thomson, R. B.
Cyclades I.—Cayeux, L.; Négris, P., 2 & 3; Papavasiliou, S. A.; Philippson, A.
Cyclaster.—Boussac, J.; Cottreau, J.
Cycloclypeus.—Prever, P. L.
Cyclocrinus.—Orbigny, A. D. d'.
Cyclonema.—Clarke, J. M., 7; Prosser, C. S., 4.
Cyclopecten.—Brown, A. P.
Cyclorisma.—Woods, H.
Cycloseris.—Blanckenhorn, M.
Cyclostigma.—Johnson, T.
Cyclostoma.—Germain, L.
Cyclotosaurus.—Fraas, E.
Cydonocrinus, gen. nov.—Bather, F. A., 3.
Cylichna.—Maury, C. J.
Cylindracanthus. — Leriche, M., 6; Priem, F., 2.
Cymbium.—Priem, F., 2.
Cymia.—Maury, C. J.
Cymophane.—Buttgenbach, H., 5.
Cynailurus.—Grossouvre, A. de, 3.
Cynodontia.—Watson, D. M. S., 3.
Cyperites.—Fœrster, B.
Cyphaspis.—Prosser, C. S., 4.
Cyphastrea.—Felix, J.
Cyphosoma.—Fourtau, R.
Cyphotrypa.—Ulrich, E. O., 3.
Cyphus.—Wickham, H. F.
Cypræa.—Boussac, J.; Maury, C. J.; Vincent, E.; Vogl, V.
Cyprædia.—Boussac, J.
Cypricardella.—Clarke, J. M., 3, 5, & 7; Prosser, C. S., 4; Williams, H. S., 3.
Cypricardinia.—Ohern, D. W., 5.
Cyprimeria.—Woods, H.
Cyprina.— Harder, P.; Hofmann, K.; Mansuy, H.; Orbigny, A. D. d'; Ravn, J. P. J.; Woods, H.
—— *islandica.*—Wepfer, E.
Cyrena.—Boussac, J.; Cossmann, A. E. M., 2; Fœrster, B.; Scupin, H.
Cyrtia.—Pellizzari, G.
Cyrtina.—Bittner, A.; Clarke, J. M., 7; Lœwe, H.; Mansuy, H., 4; Prosser, C. S. 4; Schuchert, C., 4; Stauffer, C. R.
Cyrtoceras.—Mansuy, H., 4; Ohern, D. W., 5; Reed, F. R. C.
Cyrtodonta.—Reed, F. R. C.
Cyrtolites.—Ohern, D. W., 5; Prosser, C. S., 4.
Cyrtometopus.—Reed, F. R. C.
Cystidea, Caradocian.—Bather, F. A., 4; Woodward, H., 3.
——, Devonian.—Schuchert, C., 3.
Cystiphyllum.—Mansuy, H., 4; Prosser, C. S., 3; Swartz, C. K., 2.
Cythere & *Cytherella.*—Méhes, G.
Cytherea.—Oppenheim, P., 3; Scupin, H.; Shvetz, F. P.
Cythereis.—Méhes, G.
Cytheridea.—Hucke, —; Méhes, G.
Cytherideis & *Cytherura.*—Méhes, G.

Dacite, Croatia.—Tucan, F., 7.
——, New Zealand.—Bell, J. M.
——, Victoria.—Skeats, E. W., 2.
—— -tuff, Transylvania.—Gaál, S. von, 2; Pávai-Vajna, F. von.
Dactylotheca.—Gothan, W., 2.
Dadocrinus.—Bather, F. A.
Dadoxylon.—Arber, E. A. N.; Thomson, R. B.
Dahl (Rhenish Prussia).—Brockmeier, H.
Dahllite.—Chirvinskii, V., 2; Rogers, A. F., 5.
Dahnsdorf (Brandenburg).—Hucke, —.
Dahomey (Africa).—Lacroix, A. F. A., 5.
Daiyinah I. (Persian Gulf).—Pilgrim, G. E.
Dakota (U.S.A.).—Baker, F. C., 2; Duncan, G. S.; Paige, S., 1 & 2; Winchester, D. E.
Dalhousie (New Brunswick). — Clarke, J. M., 4.
Dalmanella.—Clarke, J. M., 7; Prosser, C. S., 1 & 4; Reed, F. R. C.; Schuchert, C., 4.
Dalmanites. — Clarke, J. M., 3 & 5; Ohern, D. W., 5; Prosser, C. S., 4; Savage, T. E.
Dalmatia.—Bukowski, G. von, 1 & 2; Gregory, J. W.; Kerner, F. von, 2; Tućan, F., 3; Waagen, L., 2.
Dals Ed (Sweden).—Geer, G. de, 5.
Damacerus, gen. nov.—Khomenko, I.
Damaraland.—*See* Hereroland.
Damourite.—Lovisato, D., 2.
Dana, J. D., *Centenary.*—Hadley, A. T.; Hovey, E. O., 2; Merrill, G. P., 2; Rice, W. N.
Dandenong Creek (Victoria).—Hart, T. S.
Danube R.—Reck, H.
Daonella.—Frech, F., 5; Kittl, E. A. L.
Dapedius.—Frost, G. A.
Dartford Heath (Kent).—Leach, A. L., 3.
Dartington (Devon).—Jukes-Browne, A. J., 9.
Dartmoor (Devon). — Hunt, A. R., 7; Reid, C., 3; Worth, R. H.
Dartmouth Slates.—Ussher, W. A. E.
Darwin, Sir George H., *Obit.* — *See* Anon., 4.
Darwin's theory of coral-reefs.—Ball, J., 5; Crossland, C.; Davis, W. M., 2 & 3.
—— theory of evolution.—Osborn, H. F., 6.
Darwinula.—Hucke, —.
Datolite.—Ungemach, H.
Dauphiné (France).—Rabot, C.
Davainite.—Wyllie, B. K. N.
Davis, W. M., work on geomorphology by.—Bœhm, A. von.
Daxlanden (Baden).—Thuerach, H.
Dean, Forest of (Gloucestershire). — Strahan, A.
Dearbornia.—Walcott, C. D.
Dease Lake (B.C.).—Robertson, W. F.
Decapoda.—Balss, H.
——, Jurassic.—Bœhm, G.
——, Oligocene.—Maury, C. J.
——, Triassic.—Stierlin, K., 2.
Dechenella.—Asselbergs, E.; Richter, R.
Deeside (Scotland).—Barrow, G.
Deformation, Montana.—Emmons, W. H., 2.
——, terrestrial.—Romieux, A.
Defossiceras.—Buckman, S. S., 2.
Defrancia.—Orbigny, A. D. d'.
Deister (Hanover).—Albrecht, H.; Œrtel, W.; Schöndorf, F.
Delafossite.—Rogers, A. F., 2.
Delos (Cyclades).—Philippson, A.
Delphinodon.—True, F. W.
Delphinula.—Boussac, J.; Dainelli, G.; Scupin, H.
Delta-deposits.—Barrell, J.; Grabau, A. W., 4.
Delthyris.—Stauffer, C. R.
Demin, A. A., *Obit.*—*See* Meismer, A.
Denbighshire.—Strahan, A.
Dendrastræa.—Orbigny, A. D. d'.
Dendroconus.—Schaffer, F. X.
Dendrocystis.—Bather, F. A., 4.
Dendrogyra.—Speyer C.
Denmark.—Harder, P.; Hartz, N.; Linstow, O. von; Ussing, N. V.
Density, apparatus for determining.—Schwarz, M. von.
Dentalina.—Fœrster, B.
Dentalium.—Boussac, J.; Cramer, R.; Harder, P.; Maury, C. J.; Scupin, H.
Dentex.—Schubert, R. J.
Dentiscala.—Cossmann, A. E. M.
Denudation.—Azzi, G., 2.
——, age of the earth &.—Holmes, A.
——, South Africa.—Harger, H. S., 2.
—— of volcanic masses.—Fenton, E. G.
Dép R. (Siberia). — Anert, E. E., 2; Malyavkin, S. F.
Derbya.—Mark, C. G.
Derbyina.—Clarke, J. M., 3 & 5.
Derbyshire.—Horwood, A. R., 2; Jackson, J. W.; Mullins, E. H.; Strahan, A.
Dermoseris & *Dermosmilia.* — Speyer, C.
Deroceras.—Buckman, S. S., 2; Pia, J. von.
Descloizite.—Buttgenbach, H., 3.
Desert-levelling, action of streams in.—Keyes, C. R., 4.
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—— salt-deposits.—Holland, Sir T. H.
Deserts, occurrence of meteorites in.—Keyes, C. R., 2.
Deshayesia.—Boussac, J.
Desmiophyllum.—Seward, A. C.
Des Moines (Iowa).—Tilton, J. L.
Desmopteris.—Gothan, W., 2.
'Desiccation - conglomerate.' — Condit, D. D.
Detroit (Michigan).—Fry, W. H., 3.
Deutsch-Jassnik (Moravia).—Gläser, M.

Devil's Lake (Alberta).—Shimer, H. W.
Devon.—Carus-Wilson, C., 2, 3, & 5; Dewey, H.; Evans, H. M.: Hunt, A. R., 2, 5, 6, & 7; Jukes-Browne, A. J., 7 & 9; Julian, H. F.; Reid, C., 3; Russell, A.; Ussher, W. A. E., 1 & 2; Worth, R. H.
Devonian, America (N.).—Willis, B.
——, Appalachian Mts.—Barrell, J.
——, Belgium, Asselbergs, E., 1 & 4; Lassine, A.; Maillieux, E., 3, 4, & 9; Stainier, X., 6.
——, Brazil.—Clarke, J. M., 3 & 5; Kozlowski, R.
——, Britanny.—Kerforne, F.
——, Carnic Alps.—Gortani, M., 2.
——, China.—Pellizzari, G.
——, Devon.—Jukes-Browne, A. J., 9; Reid, C., 3; Ussher, W. A. E., 1 & 2.
——, Eifel.—Quiring, H.
——, Falkland Is.—Clarke, J. M., 3.
——, Germany.—Born, A., 3; Fliegel, G.; Herrmann, F.; Klähn, H.; Schottler, W., 2; Wedekind, R.
——, Livonia.—Muehlen, L. von zur.
——, Luxemburg.—Asselbergs, E., 2 & 3; Duvigneaud, J.; Leidhold, C.
——, Maine.—Williams, H. S., 2.
——, Manitoba.—Maclean, A., 2.
——, Maryland.—Clarke, J. M., 7; Prosser, C. S., 1, 5, & 6; Schuchert, C., 5.
——, Mauritania.—Chudeau, R.
——, New South Wales.—Cotton, L. A.
——, New York.—Williams, H. S., 3.
——, Norway.—Goldschmidt, V. M.
——, Nova Scotia.—Young, G. A.
——, Ohio.—Prosser, C. S.; Stauffer, C. R.
——, Persia.—Stahl, A. F.
——, Rhenish Prussia.—Dohm, S.; Leidhold, C., 3.
——, Russia.—Perna, E.
——, Siberia.—Tolmachev, I. P.
——, Tongking.—Deprat, J.
——, Yunnan.—Deprat, J., 4; Mansuy, H., 4.
Devonian-Carboniferous unconformity, Mississippi Valley.—Keyes, C. R., 3.
——, boundary between Silurian &.—Dorlodot, H. de, 1 & 3.
——, distribution of fauna of.—Clarke, J. M., 5.
—— fossils in Drift, Germany.—Lœwe, H.
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Dew-ponds.—Martin, E. A.
Dewlish (Dorset).—Ferrar, H. T.; Fisher, O., 4; Reid, C., 2.
Diabase, Adirondack Mts.—Miller, W. J.
——, Cameroons.—Henssen, W.
——, Congo Belge.—Ball, S. H.; Ledoux, A., 5.
——, Devon.—Ussher, W. A. E., 2.
——, Grisons.—Cornelius, H. P.
——, Massachusetts.—Bascom, F.
Diabase, Ontario.—Collins, W. H.; Miller, W. G., 2.
——, Thuringia.—Amthor, R.
——, Transvaal.—Horwood, C. B.
——, Virginia.—Watson, T. L., 2.
——, W. Australia.—Simpson, E. S.
——, experiments on flow of.—Adams, F. D., 2.
——, fusion-temperature of.—Sosman, R. B.
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Diamantiferous rocks.—Andrimont, R. d'.
Diamantina (Brazil).—Hatch, F. H.
Diamond Creek (Victoria).—Junner, N. R.
Diamonds, Brazil.—Freise, F., 3.
——, British Columbia.—Camsell, C., 3.
——, Congo Belge.—Cornet, J., 6; Guillemain, C., 2.
——, German South-West Africa.—Barnitzke, J. E.; Range, P.; Rimann, E.
——, crystallography of.—Veen, A. L. W. E. van der, 3.
——, structure of.—Bragg, W. H.
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Diaphorostoma.—Clarke, J. M., 3, 5, & 7; Ohern, D. W., 5; Prosser, C. S., 4.
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——, time-relations of.—Williams, H. S., 3.
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DICKINSON, J., *Obit.*—*See* Gerrard, J.
Dicrocerus.—Wegner, R. N.
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Dictyophyllum.—Halle, T. G., 3; Pelourde, F.; Seward, A. C., 2.
Dictyozamites.—Bancroft, N.; Halle, T. G.
Dicynodon.—Broom, R., 10 & 14; Sollas, I. B. J., 2 & 3.
Didymograptus.—Postlethwaite, J.
Dielasma.—Mansuy, H., 1 & 4.
Dientomochilus.—Boussac, J.; Vincent, E.
Diest (Brabant).—Halet, F., 3.
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Dihong Valley (Assam).—Brown, J. C.
DIJK, P. VAN, *Obit.*—*See* Schuurman, J. A.
Dilarinos.—Navas, R. P. L.
Dimeragrion, gen. nov.—Calvert, P. P.
Dimorphastrea.—Speyer, C.

Dimorphina.—Bagg, R. M.
Dimya.—Bœhm, G.
Dimyodon.—Frech, F., 4.
Dimyopsis.—Bittner, A., 2; Krumbeck, L.
Dinant (Belgium).—Maillieux, E., 3.
Dinarites.—Arthaber, G. von.
Dinornis.—Wilson, K.
Dinorthis.—Reed, F. R. C.
Dinosauria.—Brown, B., 1. 2, & 5; Gilmore, C. W.; Hennig, E., 2, 4, 5, & 7; Janensch, W., 2; Kiær, J.; Lee, W. T., 2; Osborn, H. F.; Schwarz, E. H. L., 3.
Diodon.—Priem, F., 2.
Dionide.—Mansuy, H., 4.
Diopside.—Schumoff-Deleano, V.
Dioristella.—Bittner, A.
Diorite, Alaska.—Knopf, A.
——, Celebes.—Wunderlin, W.
——, Clarence I. — *See* ' BELGICA ' Expéd.
——, Egypt.—Ball, J.
——, Elba.—Aloisi, P.
——, New Guinea —Hendring, O. G.
——, Piedmont.—Colomba, L.
——, Utah.—Boutwell, J. M.
——, weathering of.—Klemm, G., 2.
Dip, measurement of.—Mosier, H.
Diplectrona.—Ulmer, G.
Diplodonta.—Brown, A. P.
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Diplopodia.—Fourtau, R.
Diplopora.—Hohenstein, V.
—— limestone, Dalmatia.—Bukowski, G. von.
Diplospirella.—Bittner, A.
Diplostenopora, gen. nov.—Ulrich, E. O., 3.
Diplotmena.—Gothan, W., 2.
Dipoides.—Merriam, J. C., 5.
Dipristis.—Hussakof, L.
Discina.—Bittner, A.; Leriche, M.; Lœwe, H.; Mansuy, H., 4; Yakovlev, N.
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Discohelix.—Toni, A. de.
Disconformity, Onondaga Limestone.—Kindle, E. M., 3.
Discopteris.—Gothan, W., 2.
Discorbina.—Bagg, R. M.; Schmidle, W.
Discotarbus.—Petrunkevich, A.
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Distœchia.—Cossmann, A. E. M., 2.
Ditró (Hungary).—Mauritz, B., 2.
Ditrupa.—Chapman, F., 3.
Divaricardium.—Boussac, J.
Dives (Calvados).—Douvillé, R.
Divining-rod.—Lemoine, P., 3.
Dobrudsha (Rumania). — Motas, C.; Simionescu, I., 1-4.
Dobsina (Hungary).—Ahlburg, J., 3.
Dactylioceras.—Buckman, S. S., 2.
Dogger Bank.—Reid, C.
Dogger, Germany.—Hoffmann, G.
——, Hungary.—Lóczy, L. von, *fil.*
——, Misol Archipelago.—Bœhm, G.
——, Swabia & Hanover.—Hoffmann, G., 2.
——, Switzerland. — Buxtorf, A., 3; Œrtel, W., 2.
Dolabra.—Mansuy, H., 4.
Dolerite, Cape Province & Transkei.—Du Toit, A. L.
——, New Zealand. — Thomson, J. A., 2.
——, Norfolk I.—Speight, R.
——, Western Australia.—Farquharson, R. A.
Dolhain (Liége).—Anten, J., 3.
Dolicholathyrus.—Boussac, J.
Dolichopterus.—Clarke, J. M., 6.
Dolichorhinus.—Riggs, E. S.
Dolichotoma. — Bajarunass, M. W.; Harder, P.
Doliolina.—Deprat, J., 5.
Dolomite.—Lewis, W. J.; Spangenberg, K.
——, Ardennes.—Van Werveke, L., 2.
——, California.—Harder, E., 6.
——, Croatia.—Tucan, F., 6.
——, Eifel.—Quiring, H.
——, Franconia.—Wagner, G., 3.
——, Norway.—Oxaal, J.
——, Pacific Is.—Elschner, C.
——, Tunis.—Pervinquière, L.
——, Würtemberg.—Hohenstein, V.
——, calcareous algæ &.—Jourdy, E.
——, experiments on flow of.—Adams F. D., 2.
——, formation of.—Nahnsen, M.
——, stress & fractures in. — Wilson, M. E.
Dolomite-marble, Vermont. — Dale, T. N.
Dolomitization. — Wallace, R. C., 2 & 3.
Dolophilus.—Ulmer, G.
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Don Prov. (Russia).—Dombrovski, B.
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Donegal (Ireland).—Wright, W. B.
Donetz Basin (Russia).—Lutugin, L. I.; Yakovlev, N.
Dongelberg (Brabant).—Doyen, A., 2.
Dordogne (France).—Azéma, L., 5; Peyrony, D.
Dordrecht Coal, Cape Province.—Du Toit, A. L.
Dore, Mt. (Puy-de-Dôme).—Bruyant, C.; Gonnard, F.
Doropyge.—Cobbold, E. S., 2.
Dorpat (Russia).—Muehlen, L. von zur.
Dorsanum.—Schaffer, F. X.
Dorset.—Andrews, C. W.; Bloomfield, A. H.; Ferrar, H. T.; Fisher, O., 4; Keeping, H.; Lang, W. D., 2; Reid, C., 2; Richardson, L., 2 & 4; Wickham, H. F.

Dosinia.—Brown, A. P.; Jukes-Browne, A. J., 3.
Doubs (France).—Collot, L., 2; Fournier, E., 2.
Dour (Hainault).—Leriche, M., 3.
Douvilléiceras.—Sintzov, I. T.
Douvillina.—Clarke, J. M., 7; Mansuy, H., 4.
Douze Valley (Landes). — Degrange-Touzin, A.
Dove Point (Cheshire).—Reid, C.
Dovercourt (Essex).—Underwood, W.
Downhead (Somerset). — Reynolds, S. H.
Downtonian, Kincardineshire. — Campbell, R., 1 & 3.
Draguignan (Var).—Haug, E., 3; Lanquine, A.
Drave Valley (Tyrol).—Furlani, M.
DRAYSON'S theory.—Sturge, W. A.
Dreikanter.—Lorié, J.; Pfannkuch, W.
Dremotherium.—Khomenko, I.
Drepanochilus.—Lecointre, G.
Drepanopterus.—Clarke, J. M., 6.
Dresden (Saxony).—Schumann, A.
Drift, American & European.—Deeley, R. M.
——, Belgium.—Kowarzik, K.
——, Bohemia.—Hibsch, J. E., 2.
——, Devon.—Reid, C., 3; Ussher, W. A. E., 2.
——, Germany.—Albricht, K.; Bernau, K.; Fischer, E.; Gagel, C., 5 & 6; Hirzebruch, F.; Keilhack, K.; Meyer, E.; Naumann, E.; Sœrgel, W.; Sokol, R., 3; Thuerach, H.
——, Jutland & Sleswig. — Nordmann, V.
——, Marne R.—Lemoine, P., 5.
——, Missouri.—Drushel, J. A.
——, Montgomeryshire.—Wade, A.
——, Silesia.—Götzinger, G., 2.
——, Slavonia. — Gorjanović - Kramberger, K.
——, Switzerland. — Van Werveke, L., 6.
Drift, cephalopoda in Yorkshire. — Thompson, C.
——, Devonian pebbles in N. German.—Lœwe, H.
Drillia. — Bajarunass, M. W.; Cossmann, A. E. M., 2; Dickerson, R. E.; Harder, P.; Schaffer, F. X.; Shvetz, F. P.
Drosendorf (Austria).—Gerhart, H.
Drumlins. — Geinitz, E.; Muehlen, L. von zur.
Dryas.—Björlykke, K. O., 3.
Dryas Flora, Galicia.—Szafer, W.
Dublin (Ireland).—Cole, G. A. J.
Ducan Mts. (Grisons).—Spitz, A., 2.
Duddon Estuary district (Cumberland & Lancashire).—Green, J. F. N.
Duero tin-mines (Spain). — Preiswerk, H., 2.
Dufferin Co. (S. Australia).—Jack, R. L.
Duisdorf (Rhenish Prussia).—Tilmann, N., 3.
Dumbartonshire.—Tyrrell, G. W., 3; Wyllie, B. K. N.
Dumfriesshire.—Strahan, A.
Dunes, Landes.—Welsch, J., 3.
Dungannonite.—Adams, F. D., 5.
Dunite.—Duparc, L., 3 & 4.
Dunmore (Assiniboia).—Collins, W. H., 2; Dowling, D. B., 3.
Dunottar Group, Kincardineshire. — Campbell, R.
Durance Valley (France).—Martin, D.
Durania.—Woods, H.
Durham. — Smith, S.; Strahan, A.; Trechmann, C. T.; Woolacott, D., 1–3.
Dust, meteoric.—Lane, A. C., 2.
Dutch East Indies. — Adams, G. I.; Bijdendijk, J. G.; Douglas, E. A., 2; Krumbeck, L.; Pannekoek van Rheden, J. J.; Ploeg, F. P. C. S. van der, 2; Rack, G.; Veen, A. L. W. E. van der.
DUTTON, C. E., *Obit.* — *See* Diller, J. S.
Duvalia.—Shvetzov, M.
Dwyka Conglomerate, Transvaal. — Draper, D.
Dykes, Alaska.—Stevens, B., 2.
——, Cape Province.—Rogers, A. W.
——, Massachusetts.—Warren, C. H.
——, Sweden.—Sobral, J. M.
——, Transvaal.—McDonald, D. P., 2.
——, Utah.—Boutwell, J. M.; Butler, B. S.
——, Vermont.—Perkins, G. H.
——, Victoria.—Junner, N. R.; Jutson, J. T., 2.
——, Virginia.—Watson, T. L., 2.
Dynamo-metamorphism. — Kœnigsberger, J.
Dynobatis.—Priem, F.
Dysodil, Hesse.—Schottler, W., 3.

Eagle Mts. (California). — Harder, E. C.
Eagle R. district (Alaska). — Knopf, A.
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——, crust of. — Arldt, T.; Carus-Wilson, C.; Romieux, A.; Suess, E.
——, ——, earthquakes &. — Rudolph, E.
——, ——, fracture-systems in.—Hobbs, W. H.
——, ——, infra-plutonic zone. — Fermor, L. L., 2.
——, ——, radium &.—Fermor, L. L., 3; Holmes, A., 2; Oldham, R. D., 2; Schiller, F. C. S.
——, ——, tectonics of.—Friederichsen, M., 2; Rimbach, C.; Stille, H., 3.
——, magnetic field of.—Bauer, L. A.
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——, rigidity of.—Fisher, O.
——, secular cooling of.—Mallik, D. N.
——, surface of moon &.—Bergeron, J., 4.
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—— ——, N. America.—Spencer, J. W. W., 2.
Earth-'throws,' Livonia.—Doss, B., 4.
Earthquakes.—Montessus de Ballore, F. de, 2.
——, Baden.—Neumann, L.
——, Calabria.—Baratta, M.; Stefani, C. de.
——, Cape Breton.—McIntosh, D. S.
——, Colombia.—Fenyves, J.
——, Corinth (Gulf of).—Eginitis, D.
——, Germany. — Seidlitz, W. von; Tornquist, A.
——, Italy.—Platania, G., 2.
——, Japan.—Lawson, B.
——, Mexico.—Miranda y Marron, M.; Ordoñez, E.
——, Norway. — Kolderup, C. F., 2 & 3.
——, Paris Basin.—Bergeron, J., 2 & 3; Lemoine, P., 4.
——, Portugal, 1755.—Gentil, L., 3.
——, Schleswig-Holstein.—Haas, H.
——, Sicily.—Baratta, M.; Platania, G., 4.
——, South Africa.—Sutton, J. R.
——, determination of focus of.—Quervain, A. de; Rosenthal, E.
——, distribution of epicentres of.—Rudolph, E.
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——, polar-oscillation & frequency of.—Schumann, R.
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——, sound-phenomena of.—Davison, C., 2.
——, tectonic & cryptovolcanic.—Lang, R., 2.
——, tectonic structures &.—Tornquist, A.
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——. *See also* Seismographs & Seismology.
Earthquake-records, Greece.—Eginitis, D., 2 & 3.
—— ——, Harvard.—Woodworth, J. B., 2.
—— ——, Potsdam.—Meissner, O.
—— ——, Woodbridge Hill. — Norris, F. E.
—— -reports.—Milne, J., 2.
—— -waves.—Hammer, W.; Negri, G.; Pilgrim, L.; Rœsener, F.
East Murchison Goldfield (W. Australia).—Talbot, H. W. B.
Easter I.—Marshall, P.
Eastport (Maine).—Williams, H. S., 2.

Eatonia.—Schuchert, C., 4.
Eburna.—Schaffer, F. X.
Ecculiomphalus.—Perkins, G. H.
Eccyliopterus.—Reed, F. R. C.
Echinanthus.—Fourtau, R., 2.; Lambert, J.
Echinobrissus. — Fourtau, R.; Steinmann, J. H. C. G. G., 5.
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Echinocorys.—Brydone, R. M.
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——, Carboniferous. — Hawkins, H. L., 2; Mansuy, H., 4.
——, Cretaceous.—Brydone, R. M., 1 & 5; Fourtau, R; Gillitzer, G.; Hawkins, H. L.; Klinghardt, F.; Lambert, J., 4; Scupin, H.; Steinmann, J. H. C. G. G., 5.
——, Eocene.—Boussac, J.; Dainelli, G., 2; Fourtau, R., 2; Vogl, V.
——, Jurassic.—Orbigny, A. D. d'; Pia, J. von; Richardson, L., 2.
——, Miocene.—Lovisato, D., 3; Pack, R. W.; Schaffer, F. X.
——, Oligocene.—Maury, C. J.
——, Permian.—Mansuy, H.
——, Pliocene.—Fourtau, R., 3.
——, Quaternary.—Fourtau, R.
——, Tertiary.—Chapman, F., 3; Cottreau, J.; Lambert, J., 1 & 2.
——, Triassic.—Bather, F. A.
——, internal structure & phylogeny of.—Klinghardt, F.
——, plate-crushing in. — Hawkins, H. L., 3.
Echinolampas.—Cottreau, J.; Fourtau, R., 2; Lambert, J.; Maury, C. J.; Schaffer, F. X.
Echinopsis.—Lambert, J.
Eclogite.—Becke, F. J. K., 6; Endell, K.
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—— ——, development of. — Brooks, A. H.
—— ——, literature.—Knopf, A., 6; Paige, S., 3.
——, Philippine Is.—Cox, A. J., 2.
Ectenodesma & *Ectomaria.*—Clarke, J. M., 7.
Edaphodon.—Hussakof, L.
Edestidæ.—Karpinsky, A.
Edinburgh.—Strahan, A.
Edmondia.—Cramer, R.; Mark, C. G.
Edmonton formation, Alberta.—Brown, B., 2; Lambe, L. M., 2.
Edriocrinus.—Ohern, D. W., 3.
Eger Valley (Germany).—Reck, H.

Eggenburg (Lr. Austria).—Schaffer, F. X., 1 & 2.
Eggysodon, gen. nov.—Roman, F.
Eglisia.—Harder, P.
Egypt.—Andebeau Bey; Ball, J., 1–4; Barocelli, P.; Boussac, J., 4; Couyat, J., 2–4; Hume, W. F.; Klebelsberg, R. von; Leuchs, K., 4 & 5; Oppenheim, P., 2; Schmidt, M.; Stromer, E., 2; *see also* EGYPT, Survey Dept.
Eiberg Basin (Tyrol).—Leuchs, K.
Eifel district (Germany).—Fliegel, G.; Meyer, H. L. F., 3; Quiring, H.; Sommermeier, L.
Eifel Fault.—Lohest, M., 4.
Eifelian, Belgium.—Asselbergs, E., 4; Anten, J., 4.
Eiland (Bohemia).—Michel, H., 4.
'Ekzemtheorie,' LACHMANN's. — Harbort, E., 4.
Elasmosaurus.—Dombrovski, B.
Elatocladus, gen. nov.—Halle, T. G., 3.
Elba.—Achiardi, G. D'; Aloisi, P., 1–3; Arlt, H., 2; Manasse, E.; Millosevich, F., 2.
Elbe R. (Bohemia).—Sokol R., 1 & 3.
Electracanthinus, *Electragapetus*, *Electraulax*, *Electrocerum*, *Electrohelicopsyche*, *Electropsilites*, and *Electrotrichia*.—Ulmer, G.
Elenchus.—Boussac, J.
Elephant-trench, Dewlish. — Ferrar, H. T.; Fisher, O., 4; Reid, C., 2.
Elephas.—Freudenberg, W., 2; Lichkov, B.; Œyen, P. A.; Pontier, G.; Stefanescu, S.; Sœrgel, W.
Elgin (Scotland).—Huene, F. von, 2.
Elkania.—Walcott, C. D.
Elkhorn (Montana).—Knopf, A., 4.
Elko (B.C.).—Leach, W. W.; Schofield, S. J.
Ellice Is.—Marshall, P.
ELLS, R. W., *Biogr.*—*See* Anon., 5.
Elonichthys.—Broom, R., 5.
Elopteryx.—Andrews, C. W., 2.
El Perdido meteorite.—Ducloux, E. H.
Emarginula.—Fischer, E., 2; Harder, P.; Toni, A. de.
Embolite.—Van Horn, F. R.
Embrunais (Basses-Alpes).—Haug, E.
Emerald-mines, Ethiopia. — Claremont, L.
—— ——, Ural Mts. — Mikhyeev, N. S.
Emilia (Italy).—Anelli, M.
Emmendingen (Baden). — Glaser, J.; Stierlin, H.
Emmerleff-Kliff (Schleswig-Holstein).—Gagel, C., 4.
Emscherian, Silesia.—Scupin, H.
Ena.—Germain, L.
Enallaster.—Fourtau, R.; Steinmann, J. H. C. G. G., 5.
Enallohelia.—Speyer, C.
Enantiostreon, gen. nov.—Bittner, A., 2; Frech, F., 5.
Enantiotropic transformation. — Johnston, J., 3.
Encrinurus.—Reed, F. R. C.
Encrinus.—Bather, F. A.
Enderbury I. (Pacific).—Elschner, C.
Endophyllum.—Mansuy, H., 4.
Engadin (Switzerland). — Cornelius, H. P., 2.
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——, Canada.—Bell, W. A.
——, Durham.—Trechmann, C. T.
——, Mexico.—Dégoutin, N.; Paredes, T.; Wittich, E., 5.
——, Oklahoma.—Snider, L. C.
——, Persian Gulf.—Pilgrim, G. E.
——, Sahara.—Stainier, X.
——, South Australia.—Jack, R. L.
——, Transcaspian district.—Samoilov, Y. V.
——, Tuscany.—Trabucco, G.
——, Utah & Virginia.—Lindgren, W.
——, inclusions in.—Durand, J., 2.
——, optical properties of.—Hutchinson, A.
Gyrolite.—Himmelbauer, A., 2.
Gyroma.—Clarke, J. M., 7.
Gyroporella Limestone, Cyclades.—Cayeux, L.
—— ——, Greece.—Négris, P., 4.
—— ——, Rhön Mts. — Meyer, H. L. F.
Gyroscala.—Cossmann, A. E. M.

Haberfelner, J., *Obit.*—*See* Anon., 10; *&* Geyer, G., 2.
Hadranderaster.—Spencer, W. K.
Hæmatite, Mexico.—Ungemach, H.
——, Puy-de-Dôme.—Gonnard, F.
——, Vesuvius.—Cuccia, L.
—— -quartz-schists, Western Australia. —Talbot, H. W. B.
Hafslo Lake (Norway).—Monckton, H. W.
Hagen (Westphalia).—Zimmermann, E.
Hagiastrum.—Squinabol, S.

Hainault (Belgium). — Bertiaux, A.; Cornet, J., 1–4; Delecourt, J., *fil.*, 2; Deltenre, H.; Demeure, A.; Lassine, A.; Malaise, C., 3; Leriche, M., 3; Mathieu, F. F., 4 & 5; Stainier, X., 2, 4, 5, & 7; Vrancken, J.
Halanzy (Belgian Luxemburg).—Thoreau, J.
Halberstadt (Saxony).—Jækel, O., 5.
Halemaunau Volcano (Kilauea).—Perret, F. A., 2 & 3.
Haliburton (Ontario).—Adams, F. D., 5.
Halicapsa.—Squinabol, S.
Halifax (Nova Scotia).—Young, G. A.
Haliotis.—Schaffer, F. X.
Haliserites.—Steinmann, J. H. C. G. G.
Halitherium.—Fœrster, B.
Halle a. d. Saale (Saxony).—Bernau, K.; Bœttcher, G.
Halliella.—Ulrich, E. O., 3.
Halling Man.—Cook, W. H.
Hallingdal (Norway).—Reusch, H., 4.
Hallstadt Limestone.—Heinrich, A.
Halmahera I. (Moluccas).—Wanner, J.
Halobia.—Mansuy, H., 1 & 4.
Halobiidæ, Trias.—Kittl, E. A. L.
Halesowen Sandstone series.—Kay, H.
Hálúl I. (Persian Gulf).—Pilgrim, G. E.
Halymenites.—Lee, W. T.
Halysites.—Reed, F. R. C.; Swartz, C. K., 2.
Hambergite.—Burton, R. C.
Hamborough Hill (Essex). — Reader, F. W.
Hamilton (Ontario).—Parks, W. A.; Taylor, F. B., 3.
Hamilton, Mt. (California).—Templeton, E. C.
Hamites.—Scupin, H.
Hammatoceras.—Hoffmann, G.
Hampshire.—Arnaud, F. W. F.; Brydone, R. M.; Chapman, F.; Dale, W.; Reed, F. R. C., 2; White, H. J. O.
Hanover. — Albrecht, H.; Erdmannsdörffer, O. H.; Gagel, C., 5; Hoffmann, G., 1 & 2; Kœnen, A. von, 1 & 2; Lœwe, F.; Marées, F. von; Olbricht, K.; Œrtel, W.; Schöndorf, F., 1 & 2.
Haplophragmium.—Bagg, R. M.; Chapman, F.; Fœrster, B.
Happurg (Bavaria).—Hörmann, K.
Hardanger (Norway). — Königsberger, F.; Rekstad, J.
Harney Peak district (South Dakota).—Duncan, G. S.
Háromszék (Hungary).—Papp, K. von.
Harpa.—Cossmann, A. E. M., 2.
Harpes.—Perkins, G. H.
Harpoceras.—Bœhm, G.; Renz, C., 6; Toni, A. de; Vadász, M. E.
Harrison Gulch (California).—Kramm, H. E.
Hartlepool (Durham).—Trechmann, C. T.
Harvard Seismographic Station.—Woodworth, J. B., 2.
Harwich (Essex).—Thompson, P. G.
Harz (Germany).—Baumgärtel, B., 2; Stutzer, O., 4.
Harzburgite.—Wunderlin, W.
Harzé (Liége).—Asselbergs, E., 4.
Hastimima.—Clarke, J. M., 6.
Hatfjelddalen (Norway).—Holmsen, G.
Hauerite.—Beutell, A.
Hauraki (New Zealand).—Bell, J. M.; Lett, S. J.
Hausmannia.—Seward, A. C., 4.
Haustator.—Cerulli-Irelli, S.; Schaffer, F. X.; Vincent, E.
Haute-Garonne (France).—Bergeron, J.
Haute-Loire (France).—Abraham, A.; Glangeaud, P., 2.
Haute-Savoie (France). — Chaix, A.; Fournier, E., 2; Ungemach, H., 2.
Hauterivian, Provence. — Kilian, C. C. W., 5.
Hautes-Alpes (France).—Martin, D., 2.
Hawaii, water-resources.—Martin, W. F.
Hawkesbury Series.—Dun, W. S., 2.
Haya, Mt. (Pays Basque).—Lapparent, J. de.
Haydenia, gen. nov.—Seward, A. C., 2.
Heavy minerals in Carboniferous.—Bosworth, T. O., 2.
Hebe, gen. nov.—Shufeldt, R. W., 2.
Hebertella.—Reed, F. R. C.
Hebertia.—Lambert, J.
Hebra.—Schaffer, F. X.
Hecticoceras.—Renz, C., 6.; Tzuitovich, K. A.
Hedenbergite.—Manasse, E.
Hedley (B.C.).—Camsell, C., 3.
Hegaus (Baden).—Gutmann, S. G.
Heidelberg (Victoria). — Jutson, J. T., 2.
Heiligenkreuz (Tyrol).—Koken, E.
Helcion.—Orbigny, A. D. d'.
Helena mining district (Montana).—Knopf, A., 2 & 3.
Helgeland (Nordland).—Oxaal, J.; Rekstad, J., 2.
Helicaulax.—Scupin, H.
Helicigonia & *Helicodonta.*—Germain, L.
Helicoprion.—Karpinsky, A.
Helicopsyche.—Ulmer, G.
Helicotoma.—Branson, E. B.
Heliodiscus.—Squinabol, S.
Heliolites. — Mansuy, H., 2; Reed, F. R. C.
Heliomera.—Perkins, G. H.
Heliophyllum.—Clarke, J. M., 7; Mansuy, H., 4; Prosser, C. S., 3; Stauffer, C. R.; Swartz, C. K., 2.
Helix.—Caziot, E.; Cockerell, T. D. A., 3; Cossmann, A. E. M., 2; Dollfus, G. F.; Germain, L.; Schaffer, F. X.
Helladotherium.—Khomenko, I.
Helmersenia.—Walcott, C. D.
Helminthochiton.—Robson, G. C.
Hemiaster.—Fourtau, R.
Hemicerithium.—Cossmann, A. E. M., 2.
Hemipedina.—Bather, F. A.

Hemifusus.—Scupin, H.
Hemikreischeria.—Pruvost, P., 3.
Hemimeryx.—Cooper, C. F., 3.
Hemiptychina. — Mansuy, H., 4; Yakovlev, N.
Hengistbury Head (Hants).—Chapman, F.; Reed, F. R. C., 2.
Henjám I. (Persian Gulf).—Pilgrim, G. E.
Henlow (Bedfordshire).—Strahan, A., 6.
Hensies (Hainault).—Mathieu, F. F., 5.
Hérault (France).—Mayet, L.
Hercoglossa.—Vincent, E.
Hereroland (S. Africa).—Cloos, H.
Hermány (Hungary).—Halaváts, G. von, 2.
Herouvalia.—Cossmann, A. E. M., 2.
Herschbach (Westerwald).—Endell, K., 2.
Hertfordshire.—Hopkinson, J.; Kidner, H.
Herzegovina.—Katzer, F., 2.
Hesse.—Beetz, W.; Klemm, G., 1 & 3; Kœnen, A. von; Schopp, H.; Schottler, W., 1–3; Steuer, A., 1 & 2; Van Werveke, L., 10; Ziervogel, H.
Hesse-Nassau.—Endell, K., 2; Kinkelin, F.
Hetærolite.—Ford, W. E.
Heterastridium.—Krumbeck, L.
Heterocyathus.—Felix, J.
Heteropora.—Wolfer, O.
Heterostegina.—Prever, P. L.
Heterostrea.—Jaworski, E.
Heterotarbus.—Petrunkevich, A.
Hettangia.—Mansuy, H., 2.
Hève, Cap de la (Seine Inf.).—Lecureur, A.
Hexalasma.—Withers, T. H., 2.
Hibolites.—Shvetzov, M.
Hiddens I. (Rügen).—Leidhold, C., 2.
Hildesheim (Hanover).—Kœnen, A. von, 2.
Hildoceras.—Renz, C., 7; Vadász, M. E.
Hima.—Brown, A. P.
Himalaya Mts. (Asia).—Burrard, S. G., 1 & 2; Cowie, H. M.; Fisher, O.; Hayden, H. H., 4; Oldham, R. D.; Reed, F. R. C.; See, T. J. J.
Himantophyton, gen. nov.—Matthew, G. F., 2.
Hindella.—Reed, F. R. C.
Hindia.—Swartz, C. K., 2.
Hippalimus.—Orbigny, A. D. d'.
Hipparion.—Kormos, T., 5; Merriam, J. C., 5.
Hipparionyx.—Schuchert, C., 4.
Hippopodium.—Orbigny, A. D. d'.
Hippopotamus.—Dawson, C., 2.
Hitteren I. (Norway).—Schetelig, J., 2.
Hodgkinsonite, new mineral.—Palache, C., 2.
Höchstädt (Franconia).—Zenetti, P.
HŒRNES, R., *Obit.*—*See* Dreger, J., 2.
Hötting (Tyrol).—Blaas, J.
Hoferia.—Bittner, A., 2.
HOFMANN, A., *Obit.*—*See* Slavik, F.
Hokkaido Prov. (Japan).—Katō, T.
Hol (Norway).—Reusch, H., 4.
Holaster.—Klinghardt, F.
Holbrook (Arizona).—Merrill, G. P.
Holcostephanus. — Steinmann, J. H. C. G. G., 4.
Holcotrochus.—Chapman, F., 3.
Holderness (Yorkshire).—Thompson, C.
Holectypus.—Fourtau, R.
Holland.—Baren, J. van; Clement, —; Gracht, W. A. J. M. van W. van der; Molengraaff, G. A. F.
Holmia.—Walcott, C. D., 2.
Holocentropus.—Ulmer, G.
Holocrinus.—Bather, F. A.
Hologyra.—Hohenstein, V.; Kittl, E. A. L., 2.
Holopea.—Ohern, D. W., 5; Clarke, J. M., 7.
Holopella.—Gortani, M., 2.
Holoptychius.—Woodward, A. S., 4.
Holstein (Germany).—Gagel, C., 6.
Holy Isle (Arran).—Tyrrell, G. W.
HOLZAPFEL, E., *Obit.*—*See* Kayser, E., 3.
Holzkirchen (Bavaria).—Penck, A., 4.
Homalonotus.—Clarke, J. M., 2, 3, & 5; Kozlowski, R.; Leriche, M.; Ohern, D. W., 5; Prosser, C. S., 4.
Homalostega.—Brydone, R. M., 3.
Homestake Mine (Dakota).—Paige, S.
Homo, Peru.—Bingham, H.
——, Aurignacian.—Mayet, L., 2.
——, Mousterian.—Martin, H.
——, Quaternary.—Boule, M.; Broom, R., 8; Dawson, C., 1 & 2; Hewitt, H. D.; Monckton, G. F.; Shufeldt, R. W.; Wiegers, F.
——, Stone-age.—Fuerst, C. M.
——. *See also* Man.
Homocrinus.—Ohern, D. W., 3.
Homœsolon.—Wegner, R. N.
Homomya.—Hohenstein, V.; Krumbeck, L.
Honduras.—Montis, H. de.
Honfleur (Calvados).—Lecureur, A.
HOOKER, Sir JOSEPH D., *Obit.* — *See* Prain, D.
Hooker Glacier (New Zealand).—Marshall, P., 4.
Hoplites.—Steinmann, J. H. C. G. G., 4; Sintzov, I. T.
Hoplitoides.—Douvillé, H., 2.
Hopsten (Westphalia).—Wegner, T.
Horizontal displacements.—Quiring, H.
Hormotoma.—Branson, E. B.; Clarke, J. M., 7; Reed, F. R. C.
Hormuz I. (Persian Gulf).—Pilgrim, G. E.
Horn (Lr. Austria).—Himmelbauer, A., 3.
Hornera.—Canu, F.
Hornfels, Rumania.—Jonescu-Bujor, D.
——, weathering of.—Klemm, G., 2.
Hornstone, Würtemberg. — Hohenstein, V.

Hortobágy R. district (Hungary).—Timkó, I., 2.
Horton Series.—Bell, W. A.
Hospitalet (Pyrenees).—Mengel, O.
Houmart (Liége).—Anthoine, R., 2.
Hradlischke (Bohemia).—Michel, H., 7.
Hudson Bay drainage-area.—Follansbee, R.
Hübnerite.—Tronquoy, R., 2.
Huelva (Spain). — Scotti, H.; Wetzig, B.
Huenella.—Walcott, C. D.
Hughmilleria.—Clarke, J. M., 6.
Hullbridge (Essex).—Reader, F. W.; Warren, S. H.
Human remains.—*See Homo &* Man.
Humeralis Beds.—Schöndorf, F., 2.
Humus.—Tamm, O.
Hungary.—Ahlburg, J., 3; Ballenegger, R., 2; Bather, F. A.; Bittner, A.; Böckh, J. von; Éhik, J.; Emszt, K., 1 & 2; Gaál, S. von; Halaváts, G. von, 1 & 2; Hillebrand, E.; Hofmann, K.; Horusitzky, H., 1–3; Horváth, B. von, 1 & 2; Kormos, T., 2–4 & 6; Lázár, B., 1 & 2; László, G. von, 1 & 2; Liffa, A., 1 & 2; Limanowski, M.; Lóczy, L. von, 1 & 3; Mauritz, B., 1 & 2; Noszky, E., 1 & 2; Noth, J.; Orosz, A.; Papp, K. von, 1–5; Podek, F., 1 & 2; Posewitz, T., 1 & 2; Roth von Telegd, L., 1–4; Rozlozsnik, P.; Schafarzik, F., 1–3; Schréter, Z., 1–3; Schubert, R. J.; Szinye, S. M. von; Szontagh, T. von, 1 & 2; Tæger, H., 1 & 2; Téglas, G.; Timkó, E., 1 & 2; Treitz, P., 1 & 2; Vadász, M. E., 3 & 4; Vendl, A., 1–3; Vitalis, I.
Hungarian-Croatian coast-region.—Kadić, O., 2.
Hungarites.—Arthaber, G. von; Diener, C.; Frech, F., 2.
Hunsrück Beds.—Leidhold, C., 3.
Hunyad (Hungary).—Papp, K. von, 3.
Hurlet datum-line.—Neilson, J.
Huron, Lake (N. Am.).—Parks, W. A., 4; Spencer, J. W. W., 3; Wilson, M. E., 4.
Huron Shale, Ohio.—Prosser, C. S., 2.
Huronian, Canada.—Coleman, A. P., 3; Wilson, M. E.
Hustedia.—Mansuy, H.; Mark, C. G.
Hutchinson, Sir Jonathan, *Obit.* — *See* Anon., 11.
Hüttchenberg (Saxony).—Hundt, R., 2.
Hutton & Werner's theories.—Sederholm, J. J., 5.
Hyæna. — Kormos, T., 5; Stromer, E., 2.
Hyalinia.—Caziot, E.; Germain, L.
Hyboclypus.—Richardson, L., 2.
Hydrobia.—Fœrster, B.
—— Limestone, Germany.—Kinkelin, F.
Hydrodolomite.—Millosevich, F.
Hydropsyche.—Ulmer, G.
Hydrothermal alteration.—Uglow, W. L., 3.
Hydrozincite.—Wittich, E., 2.
Hydrozoa, Devonian.—Swartz, C. K., 2.
Hylæochampsa.—Andrews, C. W.
Hyolithes.—Clarke, J. M., 7; Reed, F. R. C.
Hyolithus.—Clarke, J. M., 3 & 5.
Hyon (Hainault).—Cornet, J.
Hyotherium.—Cooper, C. F., 3; Wegner, R. N.
Hyperammina.—Hohenstein, V.
Hypogeomys.—Grandidier, G.
Hypolophites.—Leriche, M., 6.
Hypostoma.—Priem, F.
Hypsaster.—Fourtau, R.

Icanotia.—Woods, H.
Ice, crystallization of.—Chirvinskii, P. N., 2.
——, eroding action of.—Evans, J. W., 8.
——, inland.—Nordenskjöld, O., 4.
——, plasticity of.—Hess, H., 3.
——, viscosity of.—Deeley, R. M., 3.
——. *See also* Glaciers, *&c.*
Ice-age, Europe.—Lepsius, R., 3.
——, Lr. Huronian. — Coleman, A. P., 3.
Ice-ages, Arrhenius's theory of. — Kayser, E., 2.
——, former.—Manson, M.
Ice-border formations, Sweden. — Geer, G. de, 5.
Ice-caves.—Miller, A. M.
Ice-sheets, Arctic glaciers & British.—Garwood, E. J.
Iceland.—Gregory, J. W.; Hartz, N.; Pjeturss, H.
Ichthyosaurus.—Fraas, E., 4.
Ichthyosauria.—Simionescu, I.; *see also* Reptilia.
Idaho (U.S.A.). — Blackwelder, E., 2; Lindgren, W.; Shannon, E. V.; Umpleby, J. B., 1 & 2.
Idmonea.—Canu, F.; Orbigny, A. D. d'; Wolfer, O.
Igneous emanation pressure. — Stevens, B., 2 & 3.
—— magmas, differentiation phenomena of.—Jevons, H. S., 2.
—— rocks, Massachusetts.—Bascom, F.
—— ——, Sweden.—Sobral, J. M.
—— ——, classification of.—Milch, L., 2; Sluys, M.
—— ——, composition of.—Hobbs, W. H., 2.
—— ——, order of crystallization in.—Bowen, N. L.; Ziegler, V.
—— ——, origin of.—Felsch, J., 4.
—— ——, quantitative classification of.—Cross, W.
—— ——, saturated and unsaturated.—Shand, S. J., 2.
—— ——, solution theory. — Schwarz, E. H. L.
—— ——, text-book on. — Iddings, J. P.

Igneous rocks.—*See also* Granite, *&c.*
Ili R. (Semirechensk Prov.).—Kazanskii, P., 2.
Ilionia.—Ohern, D. W., 5.
Ilkley Spa (Yorkshire).—Burrell, B. A.
Illænus.—Reed, F. R. C.
Illinois (U.S.A.). — Bleininger, A. V.; Savage, T. E., 2; Trowbridge, A. C., 1 & 2.
Ilm Valley (Thuringia).—Naumann, E.
Ilmenite.—Buttgenbach, H., 5; Hawkins, A. C.; Lewis, W. J.; Magistretti, L.
Ilmenorutile.—Schetelig, J.
Ilvaite.—Manasse, E.
Ilyocypris.—Hucke, —.
Imperial Institute, South Kensington.—Kitson, A. E., 2.
Implements, flint & stone. — Arnold, E. L.; Baudouin, M.; Bennett, F. J.; Boyard, C.; Brögger, A. W.; Bury, H.; Clarke, W. G., 1 & 2; Commont, V.; Cotte, C., 2; Dale, W.; Dawson, C., 2; Dubus, A., 2; Duteurtre, M.; Fraipont, C., 5; Halls, H. H.; Havnö, E. J.; Hillebrand, E.; Hörmann, E.; Johnson, J. P.; Kellermann, —; Lankester, Sir E. R.; Leach, A. L.; Marr, J. E., 3; Moir, J. R., 1, 4–6; Mullins, E. H.; Newall, R. S.; Newton, W. M.; Nightingale, R. C.; Plat, —; Reader, F. W.; Rossbach, G.; Sarasin, P.; Schaudel. L.; Smith, R. A.; Sollas, W. J., 2; Sturge, W. A.; Sutcliffe, W. H.; Velge, G.
Indalsalfven (Jemtland).—Carlzon, C.
India, coal in.—Ball, V.; Ditmas, F. I. L.; Greenwell, G. H.; Hayden, H. H.
——, Geological Survey. — Hayden, H. H., 2.
——, mineral production of. — Hayden, H. H., 3; *see also* INDIA.
——. *See also* Assam, Himalaya Mts., *&c.*
Indiana (U.S.A.).—Kindle, E. M.
Indo-China. — Deprat, J., 5; Lacroix, A. F. A., 5; Lantenois, H.; Mansuy, H., 3; *see also* Annam.
Indonautilus.—Krumbeck, L.
Inferior Oolite, Dorset, Gloucestershire, & Somerset.—Richardson, L., 2.
—— ——, Var.—Lanquine, A., 2.
'Infra-plutonic' zone.—Fermor, L. L., 2.
Injection-gneiss, Riesengebirge. — Berg, G.
Inkissi Valley (Central Africa).—Cornet, J., 5.
Inn Valley (Tyrol).—Ampferer, O., 2; Hammer, W., 1 & 2; Hilber, V.
Innis Stuire (Argyll).—Bailey, E. B.
Inoceramus.—Andert, H.; Bœhm, J., 3; Davis, C. H.; Hennig, E.; Lee, W. T.; Maury, C. J.; Rogala, W.; Scupin, H.; Sintzov, I. T.; Sokolov, D. N., 4.
Insecta, Carboniferous. — Meunier, F.; Pruvost, P., 5.
——, Liassic.—Navas, R. P. L.
——, Miocene.—Calvert, P. P.; Cockerell, T. D. A., 2; Wickham, H. F.
——, Oligocene.—Fœrster, B.; Ulmer, G.
——, Permian.—Reis, O. M., 2.
Insects, atmospheric pressure & fossil.—Harlé, E.
Inselberge, origin of.—Falconer, J. D.
Integricardium, subgen. nov.—Rollier, L., 2.
Interglacial deposits, Brandenburg. — Hucke, —.
—— ——, Dakota & New York.—Baker, F. C., 2.
—— ——, Lombardy.—Baltzer, A.
—— ——, Toronto.—Coleman, A. P., 5.
—— flora, Alps.—Blaas, J.
—— periods, climate of.—Frech, F., 6.
—— stages.—Gagel, C., 5; Linstow, O. von.
—— ——, Switzerland.—Frei, R.
—— weathering, red-clay &. — Baren, J. van.
International Geological Congress.—*See* Congress.
—— Vulcanological Institute.—Friedlænder, I., 2.
Interstadial deposits.—Linstow, O. von.
Intrusion, laws of.—Stevens, B., 2 & 3.
——, Prospect-Hill dolerite. — Jevons, H. S., 1 & 2.
Intrusions, folded.—Sederholm, J. J., 8.
Inverness-shire.—Barrow, G., 3.
Inveryne (Argyll).—Clough, C. T.
Involutina.—Upton, C.
Iowa (U.S.A.).—Leighton, M. M.; Norton, W. H., 1 & 2; Tilton, J. L.
Iphidella.—Walcott, C. D.
'Ipswich skeleton.' — Moir, J. R., 4; Sutcliffe, W. H.
Ipswich (Suffolk).—Moir, J. R., 6.
Iraklià (Cyclades).—Papavasiliou, S. A.
Irasburg (Vermont).—Richardson, C. H., 2.
Ireland, coal resources of.—Cole, G. A. J., 2.
Iridium.—Hautpick, E. de, 3.
Iridosmine, origin of.—Young, R. B., 3.
Irkutsk (Siberia).—Maliavkin, S. F., 3.
Iron, Bavaria.—Rothpletz, A., 4.
——, Belgium.—Anthoine, R., 4; Laur, F.; Thoreau, J.
——, Bohemia.—Klouček, C.
——, Brazil.—Freise, F., 3; Gathmann, T.
——, Britanny.—Kerforne, F.
——, British Columbia.—*See* BRITISH COLUMBIA, Bureau of Mines.
——, Burgundy.—Cayeux, L., 5.
——, California.—Harder, E. C.
——, Canada,—Adams, F. D., 5; *see* CANADA, Dep. of Mines, 3.
——, Chile.—Vattier, C., 1-3.
——, China.—Inouye, K.; Read, T. T.

Iron, Colorado.—Singewald, J. T.
——, Congo Belge.—Ball, S. H.; Guillemain, C., 2.
——, Cumberland.—Postlethwaite, J.
——, France.—Riaz, A. de, 2.
——, Galicia & Poland.—Rehbinder, B. von.
——, Germany.—Harbort, E., 7; Wiessner, F.
——, Greece.—Scott, H. K.
——, Greenland.—Benedicks, C.
——, Hungary.—Vendl, A., 2.
——, India.—Hayden, H. H., 2.
——, Lapland. — Quensel, P. D., 2; Rassmus, H.
——, Manchuria.—Inouye, K., 2.
——, Morocco.—Dieckmann, W.; Klockmann, F.
——, Nevada.—Jones, J. C.
——, Norway.—Sjögren, H., 2.
——, Nova Scotia.—Twenhofel, W. H.
——, New Brunswick.—Young, G. A.
——, Persia.—Stahl, A. F.
——, Persian Gulf.—Pilgrim, G. E.
——, Philippine Is.—Smith, W. D., 2.
——, Ross-shire.—Peach, B. N., 3.
——, Russia.—Hautpick, E. de.
——, South Australia.—Ward, L. K., 2.
——, Spain.—Adán de Yarza, R.; Adaro, L. de; Gálvez-Cañero, A. de; Sanchez Lozano, R.; Villasante, F. B., 1 & 2.
——, Sweden. — Holmquist, P. J., 3; Lindman, A.; Sjögren, H., 2; Skottsberg, C.; Wiessner, F.
——, Western Australia. — Talbot, H. W. B.
——, formation of carbonate-ores. — Condit, D. D.
——, in coal-seams.—Karapetian, O.
——, meteoric.—Merrill, G. P., 3.
——, oxides & sulphides of.—Mixter, W. G.
——, world resources of.—Kemp, J. F.; Launay, L. de; Sjögren, H.
Iron-ore deposits.—Beyschlag, F. H. A., 2.
—— ——, enrichment of. — Emmons, W. H.
——, metamorphism & structure of.—Holmquist, P. J., 3.
——, origin of magnetic.—Nason, F. L.
Iron-ores, mountain-chains & sedimentary.—Cayeux, L., 3.
——, origin of sedimentary. — Cayeux, L., 4.
Iron-sands, Quebec.—Mackenzie, G. C.
Iron Spur (Ontario).—Uglow, W. L.
Ironstone-conglomerate, Brunswick. — Riedel, A., 3.
Iroquois Beach (Ontario).—Spencer, J. W. W., 2; Taylor, F. B., 3.
Irrigation.—Heroy, W. B.
Isastræa.—Speyer, C.
Ischl (Upper Austria).—Spengler, E.
Ise Valley (Schwyz).—Buxtorf, A.
Iseo, Lake (Lombardy).—Baltzer, A.; Hess, H.
Isère (France).—Germain, L.; Hollande, D.; Lory, P.
Isis.—Chapman, F., 3.
Islamkuju (Transcaspian). — Samoïlov, Y. V.
Isoarca.—Rollier, L., 2.
Isocardia.—Björlykke, K. O., 3; Boussac, J.; Harbort, E., 3; Scupin, H.
Isochilina.—Perkins, G. H.
Isocrinus.—Bather, F. A.
Isopoda, Carboniferous-—Andrée, K., 4; Pruvost, P.
Isostasy.—Capeder, G.; Chamberlin, T. C., 3; Hayden, H. H., 4; Hübner, E.; See, T. J. J.
Isotæmia.—Hussakof, L.
Isoteloides.—Perkins, G. H.
Istein (Baden).—Wurz, O.
Isthmia.—Cossmann, A. E. M., 2.
Istria.—Waagen, L.
Isurus.—Jordan, D. S.
Itabirite-ore, Brazil.—Gathmann, T.
Italy, combustible materials in. — Aichino, G.
——, progress of geology in. — Stefani, C. de, 2.
——. *See also* Liguria, *&c.*
Itasy (Madagascar).—Lacroix, A. F. A., 3.
Ivanhoe (Victoria).—Jutson, J. T.
Iversheim (Rhenish Prussia).—Tilmann, N. 3.
Ivigtut (Greenland).—Böggild, O. B., 3.
Ivybridge (Devon).—Ussher, W. A. E.
Iztacchuatl (Mexico).—Freudenberg, W.

Jablanac (Croatia).—Koch, F.
Jadeite.—Schumoff-Deleano, V.
Jækelocystis.—Schuchert, C., 3.
Järkholmen (Sweden).—Wallerius, I. D.
Jalite.—Lovisato, D., 2.
Jamaica.—Hall, M.
Jambi (Sumatra).—Tobler, A.
Jamesella.—Walcott, C. D.
Jamieson, T. F., *Obit.*—*See* Woodward, H. B.
Janeia.—Clarke, J. M., 3 & 5.
Japan.—Davison, C.; Friedländer, I., 4; Kôzu, S., 1 & 2; Lawson, B.; Yabe, H.
——, coal-resources of.—Inouye, K., 6.
——, coals & metallogeny of. — Iwasaki, C., 1 & 2.
——, pulsatory oscillations in.—Omori, F., 4.
——, sea-level variation around.—Omori, F., 1–3.
Jarosite.—Manasse, E.
Jarvis I. (Pacific).—Elschner, C.
Jasmund (Rügen).—Keilhack, K.
Jauernig (Silesia).—Götzinger, G., 2.
Java (D.E.I.).—Douglas, E. A., 1 & 2; Felix, J.; Martin, K.
Jebel Zaghuan (Tunisia).—Spath, L. F.
Jefbie (Misol Archipelago).—Bœhm, G.
Jemelle (Namur).—Maillieux, E., 4.

Jemtland (Sweden).—Carlzon, C.; Skottsberg, C.; Tilmann, N.
Jennings formation, Maryland.—Prosser, C. S., 5.
Jensberg (Berne).—Gerber, E.
Jesenko Mts. (Austria).—Heritsch, F., 2.
Jharia or Jherria Coalfield (India).—Ball, V.; Greenwell, G. H.
Jillua, gen. nov.—Krumbeck, L.
Joannites.—Frech, F., 2.
Jo Daviess Co. (Illinois).—Trowbridge, A. C., 2.
Jodyrite.—Kraus, E. H., 2.
Joggins (Nova Scotia).—Bell, W. A., 2.
Jointing, granite.—Wagner, P. A., 2.
——, pressure of rocks &.—Stainier, X., 8.
Josefstadt (Bohemia).—Petrascheck, W., 3.
Jotnian rocks, Sweden.—Sobral, J. M.
Jullienia.—Mansuy, H., 4.
Jura, French.—Azéma, L., 4; Bourgeat, F. E., 2; Delebecque, A.; Fournier, E., 1 & 2.
——, Swiss.—Muehlberg, F., 2; Œrtel, W., 2; Rollier, L., 2.
Jurassic, Albania.—Martelli, A.
——, Alsace.—Van Werveke, L., 4.
——, America (N.).—Willis, B.
——, Andes.—Burckhardt, C., 2.
——, Apennines.—Steinmann, J. H. C. G. G., 3.
——, Asia Minor.—Pia, J. von.
——, Buckinghamshire.—Davies, A. M., 2.
——, California.—Davis, C. H., 1 & 2.
——, Cuba.—Torre, C. de la.
——, Egypt.—Couyat, J., 5.
——, England.—Salfeld, H.
——, Epirus.—Renz, C., 4.
——, France.—Hollande, D.; Kilian, C. C. W; Sauvage, H. F.
——, Galicia & Poland.—Rehbinder, B. von.
——, Germany.—Hoffmann, G.
——, Greenland.—Ravn, J. P. J.
——, Hanover.—Marées, F. von; Schöndorf. F.
——, Haute-Savoie.—Chaix, C.
——, Hungary.—Vadász, M. E.
——, Mexico.—Burckhardt, C., 2.
——, Morocco.—Brives, A., 2; Douvillé, R., 5 & 6.
——, New Guinea.—Bœhm, G., 2.
——, Novaya Zemlya.—Sokolov, D. N., 5.
——, Persia.—Stahl, A. F.
——, Russia.—Sokolov, D. N.
——, Scotland.—Strahan, A., 8.
——, Siberia.—Malyavkin, S. F.; Seward, A. C.; Sokolov, D. N., 4.
——, Spain.—Jiménez de Cisneros, D.
——, Sumatra.—Volz, W.
——, Swabia.—Berckheimer, F.; Fischer, E., 2.
Jurassic, Switzerland.—Ploeg, F. P. C. S. van der.
——, Tunisia.—Spath, L. F.
——, Würtemberg.—Fischer, E.; Vosseler, H.
——, Yorkshire.—Buckman, S. S.; Thomas, H. Hamshaw, 2 & 5.
——, climatic zones of.—Burckhardt, C., 2.
——. *See also* Bathonian, *&c.*
Jusiberg (Würtemberg).—Vosseler, H.
Jutland.—Hartz, N.; Nordmann, V.; Norregaard, E. M.; Ussing, N. V.

Kaczyka (Bukowina).—Niedzwiedzki, J.
Kaffraria (South Africa).—Schwarz, E. H. L., 4
Kaiserstock (Switzerland).—Hauswirth, W.
Kaiserstuhl (Aargau).—Meyer, G.; Söllner, J., 1–3.
Kaiser-Wilhelm's Land (New Guinea).—Gagel, C., 2.
Kaitajanki (Sweden).—Hallén, K.
Kalbinsk Mts. (Siberia).—Obrutshev, V., 1 & 2.
Kalgoorlie (W. Australia).—Simpson, E. S.; Thomson, J. A.
Kallnach (Berne).—Gerber, E., 2.
Kalpak-Tokaïky-Kazansky Range (Ural Mts.).—Duparc, L., 3.
Kamchatka (Siberia).—Bartels, W.
Kames, Livonia.—Muehlen, L. von zur.
——, Ohio.—Stauffer, C. R.
——, Stirling.—Gregory, J. W., 3.
Kamouraska Conglomerate, Quebec.—Dresser, J. A.
Kandern (Baden).—Neumann, R.; Wurz, O.
Kangaroo Ground (Victoria).—Jutson, J. T.
Kangaroo I. (S. Australia).—Ward, L. K.
Kanowna Goldfield (W. Australia).—Blatchford, T.
Kansas (U.S.A.).—Merrill, G. P., 4; Moodie, R. L.
Kaoko Land (German S.W. Africa).—Krause, C., 2; Kuntz, J.
Kaolin, India.—Hayden, H. H., 2.
Kaolinite. Belgium.—Ledoux, A., 3.
Kaolinization.—Lazarevic, M.
Kappiger-Ley (Rhenish Prussia).—Hopmann, P. M.
Kara Dag (Crimea).—Chirvinskii, P. N., 5.
Karadagh (Persia).—Brouard, C. A.
Karakoram (Kashmir).—Filippi, F. de.
Karesuando (Sweden).—Hallén, K.
Karpinskya.—Gortani, M., 2.
Karroo laccolite (S. Africa).—Schwarz, E. H. L., 4.
—— System.—Range, P.; Watson, D. M. S., 6.
Kårso Glacier (Sweden).—Svenonius, F.

Kars (Russia).—Charnotzki, S., 3.
Karsts, Adriatic.—Kossmat, F.
——, Apuan Alps.—Merciai, G., 2.
——, Croatia.—Koch, F.; Terzaghi, K. von.
——, hydrography of.—Teppner, W., 2.
Kartstein (Eifel).—Sommermeier, L.
Karyzek (Bohemia).—Klouček, C.
Kasai Basin (Congo Belge).—Ball, S. H.; Cornet, J., 6.
Kashmir.—Burton, R. C.; Filippi, F. de.
KASPEROVICH, G. I., *Obit.*—*See* Bogholubov, N.; *&* Fersmann, A.
Kasselian, France.—Dollfus, G. F., 3 & 4.
Katakekaumene Volcano (Lydia).—Philippson, A., 2.
Katanga (Congo Belge). — Andrimont, R. d'; Delhaye, F.; Guillemain, C., 1 & 2; Gwyn-Williams, R. H.; Mathieu, F. F., 2, 3, & 7; Stutzer, O., 1 & 5.
Katosira.—Kittl, E. A. L., 2.
Kayserlingia.—Walcott, C. D.
Kaznac (Hungary).—Roth von Telegd, L., 3.
Kedabeg (Caucasus).—Chaustoff, E., 1 & 2.
Keeling-Cocos I.—Wood-Jones, F.
Keenia.—Dun, W. S., 3.
Keewatin Series, Canada. — Miller, W. G., 2; Wilson, M. E.
Keilostoma.—Scupin, H.
Kelheim (Bavaria).—Speyer, C.
Kelleys I. (Lake Erie).—Cesàro, G., 2.
'Kelloway Rock,' Yorks.—Buckman, S. S.
Kent.—Barrow, G., 4; Burr, M.; Cook, W. H.; Dawkins, W. B.; Dibley, G. E.; Leach, A. L., 2 & 3; Smith, R. A., 2; Strahan, A.
Kent's Cavern (Torquay).—Hunt, A. R., 5; Julian, H. F.
Kentucky (U.S.A.).—Dilworth, J. B.
Kepplerites.—Ravn, J. P. J.
Kersantite, Egypt.—Ball, J.
Keratophyre, Devon.—Ussher, W. A. E., 2.
——, Massachusetts.—Bascom, F.
——, Schiefergebirge.—Finckh, L.
——, Timor.—Brouwer, H. A.
Kerolite, Silesia.—Beyschlag, F. H. A., 4.
Kerosene Shale, New South Wales.—Pittman, E. F.
Kertch Peninsula (Crimea). — Shvetz, F. P.
Keuper, Hanover.—Lœwe, F.
——, Lorraine.—Van Werveke, L., 1 & 5.
——, Silesia (Upper).—Michael, R.
——, Sweden.—Trœdsson, G.
——, Uri.—Ploeg, F. P. C. S. van der.
——, Würtemberg.—Weigelin, M., 2.
Khabarovsk-Buréia (Siberia). — Anert, E. E.
Kharkov (Russia).—Chirvinskii, P. N.
Khokar meteorite.—Cotter, G. de P.
Khomolkho R. district (Siberia).—Kotulskii, V.
KHRUSHCHOV, K. D., *Obit.*—*See* Anon., 12; *&* Spencer, L. J., 2.
Kieselguhr, Hesse.—Schottler, W., 3.
Kilauea (Hawaii).—Brun, A., 3; Curtis, G. C.; Perrett, F. A., 1, 4, 5, 8, & 9.
Kilfinan (Argyll).—Clough, C. T.
Kilpatrick Hills (Dumbartonshire).—Tyrrell, G. W., 3.
Kiltorcan Hill (Kilkenny). — Johnson, T.
Kilwa Kivinje (German East Africa).—Bœhm, J.
Kimberlite.—Harger, H. S.
Kimmeridgian, Caucasus.—Renz, C., 6.
——, England.—Salfeld, H.
——, France.—Nickles, R., 2.
——, Hanover.—Lœwe, F.; Œrtel, W.
——, Switzerland.—Œrtel, W., 2.
Kincardineshire (Scotland).—Campbell, R., 1-3.
Kingena.—Cossmann, A. E. M., 2.
Kingstone meteorite (New Mexico).—Hovey, E. O.
Kinross (Scotland).—Saunders, L. J.
Kionoceras.—Clarke, J. M., 3 & 5.
Kirghiz Steppes (Siberia). — Krasnopolski, A.
Kirkeek's Treasure Mine (S. Australia).—Jack, R. L., 4.
Kirkwhelpington (Northumberland). —Weyman, G.
KITTL, E. A. L., *Obit.*—*See* Anon., 13; *&* Dreger, J., 3.
Klippen, Carpathians.—Limanowski, M., 1 & 2.
Klip R. Valley (Transvaal).—Draper, D.
Klipriversberg (Transvaal).—McDonald, D. P., 2.
Klœdenia & *Klœdenella.*—Ulrich, E. O., 3.
Klondike (Canada).—Tyrrell, J. B., 4.
Klukia.—Seward, A. C., 2.
'Knollen-schichten.'—Heim, A.
Knorripteris.—Hœrich, O.
KOCH, A., *Jubilee.*—*See* Vadász, M. E., 2.
Kœnenite.—Erdmannsdörffer, O. H.
KŒNIG, G. A., *Obit.*—*See* Anon., 14.
Königslutter (Brunswick).—Speyer, C., 2.
KOKEN, E. von, *Obit.*—*See* Pompeckj, J. F.; Suess, F. E.; Fraas, E., 2; *&* Woodward, A. S., 3.
Kokenella.—Kittl, E. A. L., 2.
Kokoma (Indiana).—Kindle, E. M.
Kokskär I.—Doss, B., 2.
Kolozs (Hungary).—Papp, K. von, 3.
Komagataké Volcano (Japan).—Katō, T.
Komárnik Cave (Hungary).—Schréter, Z.
Konenga R. (Siberia). — Voznesenskii, V. A.
Koninckina.—Bittner, A.; Mansuy, H.
Kootenay Lake (B.C.).—Le Roy, O. E.; Schofield, S. J.
Kopais Mts. (Greece).—Renz, C., 5.

Kopal (Semirechensk Prov.).—Kazanskii, P., 2.
Kope R. Basin (Siberia). — Edelstein, J. S., 3.
Kopjes, origin of.—Falconer, J. D.
Korea.—Inouye, K., 4.
Koswa R. (Ural Mts.).—Duparc, L., 2.
Koyukuk-Chandalar district (Alaska).—Maddren, A. G.
Krakatoa (D.E.I.).—Chelussi, I.
Kramenzel Limestone, Germany.—Born, A., 3.
Krassó-Szörény (Hungary).—Roth von Telegd, L., 1 & 2; Schréter, Z., 2 & 3.
Krausella.—Reed, F. R. C.
Kreischeria.—Pruvost, P., 3.
Krystnopol (Galicia).—Szafer, W.
Kuban (Russia).—Charnotzki, S., 2.
Kuen Luen Mts. (Thibet).—Leuchs, K., 3.
Kufstein (Tyrol).—Leuchs, K.
Kula (Lydia).—Philippson, A., 2.
Kummetsloch (Streitberg). — Kellermann, —.
Kunda (Esthonia).—Doss, B., 3.
Kundelungu Mts. (Congo Belge). — Andrimont, R. d'; Stutzer, O., 2.
Kundelungu System. — Mathieu, F. F., 6.
Kurkur Oasis (Libyan Desert).—Leuchs, K., 5.
Kursk (Russia).—Chirvinskii, P. N.
Kustarachne.—Petrunkevich, A.
Kutorgina.—Walcott, C. D.
Kuzmicia.—Germain, L.
Kuznetz (Siberia).—Derjavin, A.
Kyshtym (Perm).—Nikolaev, A. B.

Laacher See (Rhenish Prussia).—Brauns, R., 1 & 2; Martius, S.; Uhlig, J.
Labrador.—Gregory, J. W.
Labrax.—Schubert, R. J.
Labyrinthodontia.—Fraas, E.
Laccolites.—Schwarz, E. H. L., 2.
——, Dakota.—Paige, S., 2.
——, S. Africa.—Schwarz, E. H. L., 4.
Lacépède I. (Pacific).—Elschner, C.
LACHMANN's theory of salt-deposits.—Harbort, E., 4.
Lacunopsis.—Mansuy, H., 4.
Lagena.—Bagg, R. M.; Fœrster, B.
Laharpeia.—Prever, P. L.
Lakangaon meteorite.—Cotter, G. de P.
Lake-basins, Swiss Alps.—Lugeon, M., 4.
Lake District, English.—Postlethwaite, J.
Lakes, Germany (N.).—Jentzsch, C. A., 1-4; Schuetze, H.
——, Norway.—Monckton, H. W.
——, Spain.—Halbfass, W., 2.
——, changes of level in American.—Spencer, J. W. W., 4.
—— (glacial), N. America.—Taylor, F. B.
Lamellibranchia.—Deecke, W., 4.
——, Carboniferous.—Cramer, R.; Macnair, P.; Mansuy, H., 1 & 4; Mark, C. G.; Pruvost, P., 4; Stauffer, C. R.
——, Cretaceous.—Andert, H.; Bœhm, J., 3; Brydone, R. M.; Douvillé, H., 1, 5, & 6; Geyer, G., 3; Gillitzer, G.; Harbort, E., 3; Hennig, E.; Hofmann, K.; Jenkins, O. P.; Lee, W. T.; Rogala, W.; Scupin, H.; Sintzov, I. T.; Steinmann, J. H. C. G. G., 5; Woods, H.
——, Devonian.—Asselbergs, E., 1 & 2; Clarke, J. M., 3, 5, & 7; Kozlowski, R.; Leriche, M.; Lœwe, H.; Maillieux, E., 5 & 7; Mansuy, H., 4; Ohern, D. W., 5; Prosser, C. S., 4; Stauffer, C. R.; Williams, H. S., 3.
——, Eocene.—Boussac, J.; Cossmann, A. E. M., 2; Dickerson, R. E.; Klebelsberg, R. von; Vincent, E.; Vogl, V.
——, Jurassic.—Bœhm, G.; Davis, C. H.; Fischer, E., 2; Orbigny, A. D. d'; Ravn, J. P. J.; Rollier, L., 2; Sokolov, D. N., 4; Vadász, M. E.
——, Liassic.—Mansuy, H., 1 & 2; Toni, A. de.
——, Miocene.—Brown, A. P.; Gratacap, L. P.; Suter, H.; Toula, F., 2.
——, Oligocene.—Fœrster, B.; Harder, P.
——, Ordovician. — Branson, E. B.; Reed, F. R. C.
——, Permian.—Girty, G. H.; Mansuy, H.
——, Permo-Carboniferous.—Dun, W. S., 3.
——, Pliocene.—Woodward, B. B.
——, Quaternary.—Björlykke, K. O., 3; Brown, A. P.; Germain, L.; Menzel, H.; Newton, R. B.; Woodward, B. B.
——, Rhætic.—Mansuy, H., 1 & 2.
——, Silurian.—Mansuy, H., 4; Pritchard, G. B.; Reed, F. R. C.; Williams, H. S.
——, Tertiary.—Dollfus, G. F.; Jukes-Browne, A. J., 4; Katzer, F.; Maury, C. J.; Newton, R. B.; Oppenheim, P., 3; Shvetz, F. P.; Villasante, F. B.
——, Tithonian.—Steinmann, J. H. C. G. G., 4.
——, Triassic.—Bittner, A., 2; Frech, F., 2, 4, & 5; Gillitzer, G.; Hohenstein, V.; Kittl, E. A. L.; Koken, E.; Krumbeck, L.; Mansuy, H., 1, 2, & 4; Tommasi, A.; Vittenburg, P. V.; Weigelin, M.
Lamelliconcha.—Maury, C. J.
Lamna.—Jordan, D. S.; Leriche, M., 6; Priem, F.
Lamprophyre, Inverness-shire.—Barrow, G., 3.
——, Saxony.—Beger, P. J.
Lanarkshire.—Macgregor, M.; Strahan, A.

Lancashire.—Jackson, J. W., 2; Smith, S.; Strahan, A.; Woodward, H., 2.
Lance formation, Wyoming.—Gilmore, C.W.
'Land of Deep Corrosions.'—Ward, F. K.
Land-classification, water-supply &.—Heroy, W. B.
—— -forms, description of.—Bœhm, A. von.
Landana (Congo Belge).—Leriche, M., 6; Vincent, E.
Landenian boulders in Quaternary.—Fraipont, C., 6.
Landes (France).—Cottreau, J.; Degrange-Touzin, A.; Dollfus, G. F., 9; Dubalen, P. E.; Welsch, J., 3.
Landslides, Panama.—Cornish, V.; Macdonald, D. F.
——, Westphalia.—Wegner, T.
Langi-Logan (Victoria).—Hunter, S.
Langwith Cave (Derbyshire).—Mullins, E. H.
Lanieria.—Hawkins, H. L.
Lansdown (Somerset).—Winwood, H. H.
Lanzo (Piedmont).—Schuermann, E., 2.
Laos (Annam).—Mansuy, H.
La Paz gorge (Bolivia).—Gregory, H. E., 3.
Lapeirousia.—Douvillé, H., 5.
Lapland.—Quensel, P. D., 2; Rassmuss, H.; Skottsberg, C.; Tilmann, N.
Larcy (Indre-et-Loire).—Fraipont, C., 4.
Larder Lake district (Ontario).—Wilson, M. E.
Larix.—Thomson, R. B.
Las Vals (Aude).—Doncieux, L., 4.
Laterite, Belgian Congo.—Bull, S. H.
——, origin of.—Arsandaux, H., 2.
Latimœandra.—Speyer, C.
Latirofusus.—Dainelli, G.
Latirus.—Maury, C. J.
Latium (Italy).—Cassetti, M.; Millosevich, F.
Latrunculus.—Boussac, J.
Laubriereia.—Cossmann, A. E. M., 2.
Lauenau (Hanover).—Œrtel, W.
Laugnac (Lot-et-Garonne).—Vasseur, G.
Lauingen (Brunswick).—Speyer, C., 2.
Launde (Leicester).—Horwood, A. R., 3.
Laurent (Landes).—Dubalen, P. E., 2.
Laurentian, Canada.—Adams, F. D., 5; Wilson, M. E., 2.
——, stratigraphic value of.—Lane, A. C.
——. *See also* Pre-Cambrian.
Laurentian Lakes (N. America).—Taylor, F. B.
Lausitz massif (Saxony).—Beger, P. J.
Lauterbach (Hesse).—Beetz, W.
Lava, Etna.—Starrabba, F. S., 2.
——, Kilauea.—Brun, A., 3; Perret, F. A., 1 & 9.
——, Sardinia.—Washington, H. S.
——, Spitsbergen.—Hoel, A., 2.
——, alteration of.—Butler, B. S.
——, ascent of.—Perret, F. A., 6.
——, cooling of.—Glangeaud, P., 6.
Lava-maculæ, origin of.—Hobbs, W. H. 2.
Lavens (Lombardy).—Pullé, G., 3.
Lea Valley.—Warren, S. H., 3; *see also* LONDON, METROPOLITAN WATER BOARD.
Lead, Black Forest.—Henglein, M.
——, Bulgaria.—Kern, J., 2.
——, Canada.—Baker, M. B.; *see also* CANADA, Dep. of Mines, 3.
——, Carinthia.—Kraus, M.
——, China.—Read, T. T.
——, Cumberland.—Postlethwaite, J.
——, German South-West Africa.—Duebigk, H.
——, Mexico.—Van Horn, F. R., 2.
——, Persia.—Stahl, A. F.
——, Rammelsberg.—Wolff, —.
——, Savoy.—Kilian, C. C. W., 6.
——, Saxony.—Andrée, K.
——, Silesia.—Schulz, E.
——, Utah.—Boutwell, J. M.
——, secondary enrichment of.—Emmons, W. H.
Leadville (Colorado).—Butler, G. M.; Ford, W. E.
Leaia.—Haynes, W. P.
Leber Valley (Alsace).—Buecking, H., 1 & 2.
Lebu (Chile).—Brüggen, J.
Lecanites.—Frech, F., 2.
Lech Valley (Bavaria).—Klebelsberg, R. von, 3.
—— (Tyrol).—Ampferer, O.
Leda.—Bittner, A., 2; Brown, A. P.; Clarke, J. M., 7; Frech, F., 3 & 4; Harder, P.; Krumbeck, L.; Leriche, M.; Mansuy, H., 1, 2, & 4; Mark, C. G.; Rollier, L., 2; Scupin, H.
Leguminosites.—Fœrster, B.
Le Hunte Co. (S. Australia).—Jack, R. L.
Leibnitz (Styria).—Dreger, J.
Leicestershire.—Horwood, A. R., 1–3; Lapworth, C; Strahan, A.
Leigh Creek (S. Australia).—Duffield, C. F.
Leiocidaris.—Fourtau, R.; Lambert, J., 1 & 2.
Leiopteria.—Cramer, R.; Lœwe, H.; Maillieux, E., 5.
Leiorhynchus.—Mansuy, H., 4; Stauffer, C. R.; Tolmachev, I. P.
Leiospongia.—Orbigny, A. D. d'.
Leipa (Bohemia).—Wurm, F.
Leitmeritz (Bohemia).—Hibsch, J. E., 2.
Lemhi Co. (Idaho).—Umpleby, J. B.
Lenne Shales (Westphalia).—Fuchs, A.
Lepadocystis.—Bather, F. A., 4.
Leperditia.—Prosser, C. S., 4; Stauffer, C. R.; Ulrich, E. O., 3.
Lepidocoleus.—Savage, T. E.
Lepidocyclina.—Prever, P. L.
Lepidodendron.—Nathorst, A. G., 2.
Lepidomelane.—Lovisato, D., 2.

Lepidophyllum.—Goode, R. H.; Gortani, M., 2.
Lepidopus.—Fœrster, B.
Lepidotus.—Drevermann, F.
Lepocrinites.—Schuchert, C., 3.
Lepralia.—Chapman, F., 3.
Leptæna.—Boutwell, J. M.; Chapman, F., 2; Prosser, C. S., 4; Reed, F. R. C.; Schuchert, C., 4; Stauffer, C. R.
Leptænisca.—Prosser, C. S., 4.
Leptembolon.—Walcott, C. D.
Leptinolite.—Manasse, E.
Leptocœlia.—Clarke, J. M., 3 & 5; Kozlowski, R.
Leptodesma.—Clarke, J. M., 7; Lœwe, H.; Ohern, D. W., 5; Prosser, C. S., 4.
Leptodomus.—Asselbergs, E.; Clarke, J. M., 3.
Leptomylus.—Hussakof, L.
Leptophragma.—Scupin, H.
Leptophyllia.—Speyer, C.
Leptoria.—Felix, J.
Leptosolen.—Woods, H.
Leptostrophia.—Clarke, J. M., 3, 5, & 7.
Leptothyra.—Cossmann, A. E. M., 2.
Lettenkohle, Franconia.—Wagner, G., 3.
Leuconia.—Cossmann, A. E. M., 2.
Leukadiella, subgen. nov.—Renz, C., 7.
Leutite.—Duerrfeld, V.
Level, changes of.—Geer, G. de, 2; Spencer, J. W. W., 4.
Levifusus.—Maury, C. J.
Lewis, I. of (Scotland).—Peach, B. N., 2.
Lewisian Gneiss.—Peach, B. N., 3.
Leymeriella.—Sintzov, J. T.
Leymeriella - tardefurcata Zone. — Nachkii, A. D.
Lherzolite.—Longchambon, M., 3; Pascoe, E. H.; Schuermann, E., 2.
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——, Annam.—Mansuy, H.
——, Bavaria.—Gillitzer, G.
——, Croatia.—Koch, F.
——, Dorset.—Lang, W. D., 2.
——, France.—Monestier, J.
——, Gloucestershire.—Upton, C.
——, Hanover.—Lœwe, F.
——, Haute-Savoie.—Chaix, A.
——, Hungary. — Podek, F.; Vadász, M. E.
——, Italy.—Toni, A. de.
——, Mexico.—Wieland, G. R.
——, Misol Archipelago.—Bœhm, G.
——, Nottingham.—Smith, Bernard.
——, Ross-shire.—Peach, B. N., 3.
——, Sweden.—Trœdsson, G.
——, Switzerland. — Ploeg, F. P. C. S. van der.
——, Tyrol.—Fucini, A., 3.
——, Umbria.—Fiorentin, L., 2.
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Libby (Montana).—Larsen, E. S.
Libellulapis.—Cockerell, T. D. A., 2.
Liberia.—Parkinson, J., 3.
Libitina.—Boussac, J.
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—— stage.—Oppenheim, P., 2.
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Lichtenfels (Bavaria).—Rossbach, G.
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Liége (Belgium).—Anten, J., 3; Anthoine, R., 2; Asselbergs, E., 4; Fourmarier, P., 4; Fraipont, C., 2 & 5; Halet, F., 2; Malaise, C., 2; Velge, G.
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Lignite, Bavaria.—Muenichsdorfer, F.
——, Bosnia.—Katzer, F.
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——, Bulgaria.—Scott, H. K., 2.
——, Chile.—Brüggen, J.
——, Denmark.—Hartz, N.
——, Egypt.—Hume, W. F.
——, France.—Defline, M.
——, Germany.—Berg, G., 2; Böker, H. E., 1 & 5; Hoffmann, C.; Jentzsch, C. A., 7; Schottler, W., 2.
——, Hungary. — Papp, K. von, 5; Petrascheck, W., 2.
——, Italy.—Aichino, G.
——, Nigeria.—Evans, J. W., 5.
——, Pyrenees.—Kostka, R.
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——, Saxony.—Pietzsch, K.
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Lima.—Bittner, A., 2; Bœhm, G.; Krumbeck, L.; Mansuy, H.; Mark, C. G.; Orbigny, A. D. d'; Scupin, H.; Toni, A. de; Woods, H.
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Limburgite, Venetia.—Billows, E.
——, Victoria.—Skeats, E. W., 2.
Limea.—Woods, H.
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——, Ohio.—Condit, D. D.
——, Philippine Is.—Cox, A. J., 2.
——, Podolia.—Tarasenko, V. E.
——, Vermont.—Dale, T. N.
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——, mottled Ordovician.—Wallace, R. C., 3.
——, origin of.—Born, A., 3.
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Limnæa. — Cossmann, A. E. M., 2; Fœrster, B.; Germain, L.; Jooss, C. H.
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——, Serbia.—Lazarevic, M., 2.
——, concretionary.—Dorlodot, H. de, 5.
——, pseudomorphs.—North, H. B.
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Linearia.—Scupin, H.
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Lingulepis.—Walcott, C. D.
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Lingulobolus.—Walcott, C. D.
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Linnarssonella.—Walcott, C. D.
Linopteris.—Goode, R. H.; Gothan, W., 2.
Linthia.—Boussac, J.; Fourtau, R., 1 & 2; Lambert, J.; Vogl, V.
Liocephalus.—Cobbold, E. S., 2.
Lioceras.—Renz, C., 6.
Lioclema.—Reed, F. R. C.; Ulrich, E. O., 3.
Liopeplum.—Cossmann, A. E. M.
Liopistha.—Scupin, H.
Liopteria.—Clarke, J. M., 7; Prosser, C. S., 4.
Liorhynchus.—Clarke, J. M., 7; Prosser, C. S., 1 & 4.
Liospira.—Reed, F. R. C.
Liostracus.—Cobbold, E. S., 2.
Liotia.—Maury, C. J.
Lipari Is.—Panichi, U.
Liparite, Cameroons.—Henssen, W.
Liphistius.—Petrunkevich, A.
L'Islet Series, Quebec.—Dresser, J. A.
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Lithax.—Ulmer, G.
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Lithoconus.—Schaffer, F. X.
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Lithophyllia.—Felix, J.
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Lituola.—Chapman, F.
Livonia.—Doss, B., 4; Muehlen, L. von zur.
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——, Alaska.—Prindle, L. M.
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Lœss.—Tutkowski, P.
——, Bohemia.—Hibsch, J. E., 2.
——, Rhone Valley.—Germain, L.
——, Slavonia. — Gorjanović-Kramberger, K.
——, Turkestan.—Machatschek, F.
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——, origin of.—Merzbacher, G.
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—— Basin, Palæozoic platform. — Proctor, E.
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Loon Lake (Washington).—Hills, V. G.
Loperia.—Walcott, C. D.
Lophidiaster.—Spencer, W. K.
Lophiodon.—Schröder, H.
Lophophyllum. — Carruthers, R. G.; Mark, C. G.
Lophospira.—Reed, F. R. C.
Lorraine.—Bœker, H. E., 2; Schaudel, L.; Van Werveke, L., 1, 5, 7, & 8.
Lorraine Beds, Ontario.—Parks, W. A., 3.
LORTET, L. C., *Obit.*—*See* Gaillard, C.
Los Is. (W. Africa).—Lacroix, A. F. A., 6.
Lost River (New Hampshire).—Sayles, R. W.
Lot-et-Garonne (France).—Blayac, J., 2; Dalloni, M., 4; Repelin, J.; Vasseur, G.
Lovoï Basin (Katanga).—Mathieu, F. F., 3.
Lowestoft (Suffolk).—Strahan, A., 5.

Lowville Limestone.—Johnston, W. A.
Loxocardium.—Vincent, E.
Loxoconcha.—Méhes, G.
Loxomma.—Watson, D. M. S., 7.
Loxonema.—Asselbergs, E.; Clarke, J. M., 7; Hohenstein, V.; Kittl, E. A. L., 2; Krumbeck, L.; Ohern, D. W., 5; Prosser, C. S., 4; Stauffer, C. R.
Lualaba Beds.—Cornet, J., 7.
—— R. (Congo Belge).—Delhaye, F., 2; Mathieu, F. F., 6.
Luanza 'Pipe.'—Stutzer, O., 2.
LUBBOCK, SIR JOHN, *Obit.*—*See* AVEBURY, BARON.
Lubilache Beds.—Ball, S. H.; Delhaye, F., 2.
Lucerne (Switzerland).—Schider, R.
Luciellina.—Kittl, E. A. L., 2.
Lucina.—Boussac, J.; Fœrster, B.; Oppenheim, P., 3; Pritchard, G. B.; Vincent, E.
Ludwigia.—Hoffmann, G.; Renz, C., 6.
Ludwigshöhe (Rhenish Bavaria).—Bœhm, J., 2.
Lufira R. (Congo Belge).—Delhaye, F.
Lukuga (Congo Belge).—Lohest, M.
Luleå Elf (Norrbotten).—Hamberg, A.
Lunatia.—Scupin, H.
Lunenburg Co. (Nova Scotia).—Piers, H.
Lunulicardium.—Clarke, J. M., 7.
Lussin I. (Adriatic).—Waagen, L., 2.
Lutra.—Stromer, E., 2; Wegner, R. N.
Luxemburg.—Asselbergs, E., 2 & 3; Duvigneaud, J.; Leidhold, C.; Thoreau, J.; Van Werveke, L., 8.
Luzerne Co. (Pennsylvania).—Darton, N. H.
Luzon I. (Philippines).—Fanning, P. R.; Smith, W. D., 2.
Lycodus.—Frech, F., 4.
Lycopodiaceæ, fossilization of.—Kindle, E. M., 2.
Lycopodites.—Johnson, T.; Seward, A. C., 4.
Lydia.—Philippson, A., 2.
Lydite-pebbles. Alb Valley.—Reck, H.
Lyell, Mt. (Tasmania).—Gilbert, C. G.
Lykino Formation.—Girty, G. H.
Lyman Schists.—Lahee, F. H.
Lymnorea.—Orbigny, A. D. d'.
Lyons (Rhône).—Assada, I.; Depéret, C., 3; Doncieux, L., 6; Germain, L.; Gignoux, M.; Lévy, A. M., 1 & 3; Pussenot, C.; Rias, A. de, 2; Riche, A.
Lyonsia.—Scupin, H.
Lype.—Ulmer, G.
Lyria.—Boussac, J.; Cossmann, A. E. M., 2; Maury, C. J.
Lyriodon.—Rollier, L., 2.
Lyriopecten.—Asselbergs, E.; Clarke, J. M., 7; Scupin, H.
Lyopora.—Reed, F. R. C.
Lysorophus.—Finney, M.
Lystrosaurus.—Watson, D. M. S., 4.
Lytoceras.—Ravn, J. P. J.; Renz, C., 6 & 7; Sintzov, J. T.; Spath, L. F.; Vadász, M. E.
Lytton (B.C.).—Camsell, C.; Drysdale, C. W.
Lyttonia.—Mansuy, H.

McDonald (Pennsylvania).—White, I. C., 2.
Macedon district (Victoria) & Macedonite.—Skeats, E. W., 2.
Machærodus.—Stromer, E., 2.
Machakos (British East Africa).—Parkinson, J.
Mackenzie Province (Canada).—Tyrrell, J. B., 2.
Macoma.—Newton, R. B.
Mâconnais (France).—Lévy, A. M., 4 & 5.
Macrocephalites.—Bœhm, G., 2: Douvillé, R., 1 & 8; Sokolov, D. N., 1 & 5.
Macrochilina.—Clarke, J. M., 7; Gortani, M., 2; Mansuy, H., 4.
Macrochilus.—Prosser, C. S., 4.
Macrodon.—Bittner, A., 2; Clarke, J. M., 5 & 7; Fischer, E., 2; Frech, F., 4; Krumbeck, L.; Ravn, J. P. J.; Scupin, H.
Macrodus.—Cramer, R.; Frech, F., 3.
Macropsammus.—Cossmann, A. E. M., 2.
Macrotherium.—Wegner, R. N.
Macrozamia.—Bancroft, N.
Macrurus.—Schubert, R. J.
Mactra.—Björlykke, K. O., 3; Boussac, J.; Fœrster, B.; Lee, W. T.; Maury, C. J.; Scupin, H.; Shvetz, F. P.
Macularia.—Schaffer, F. X.
Madagascar.—Bonnefond, F.; Duparc, L., 5 & 6; Lacroix, A. F. A., 4, 5, 7, & 9; Lemoine, P.; Monnier, L.; Moreau, L.
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Maderan Valley (Uri).—Staub, W.
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Mæandrina.—Felix, J.
Magadi Lake (British East Africa).—Parkinson, J.
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——, Quaternary.—Allen, G. M.; Allen, J. A.; Brown, B., 3; Campana, D. del, 2; Dawson, C., 2; Eaton, G. F.; Éhik, J.; Freudenberg, W., 2; Gidley, J. W., 2; Grandidier, G.; Grossouvre, A. de, 3; Hay, O. P., 1 & 2; Hillebrand, E.; Irving, A., 3; Jackson, J. W., 1 & 2; Kolderup, C. F.; Marsburg, K.; Merriam, J. C., 2; Œyen, P. A.; Orosz, A.; Osborn, H. F., 3; Pontier, G.; Reusch, H., 2; Roth, S.; Sœrgel, W.; Stefano, G. de, 1 & 3; Stock, C.; Torre, C. de la, 2; Toula, F.; Underwood, W.; Wiegers, F.
——, Tertiary.—Abel, O., 2; Campana, D. del; Florea, G.; Khomenko, I., 1 & 2; Kiernik, E.; Matthew, W. D., 1 & 2; Merriam, J. C.; Schmidt, M.; Wegner, R. N.
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——, bones worked by. — Bernau, K.; Giraux, L.; Mayet, L., 3.
——, fossil.—Strassen, O. zur.
——, Piltdown.—Dawson, C., 2; Keith, A.; McCurdy, G. G.; Smith, G. E., 1–3; Waterston, D.
——, prehistoric.—Bingham, H.; Bocquier, E.; Cook, W. H.; Crooke, W.; Hörmann, K., 2.
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Manitou (Colorado).—Shedd, J. C.
Manitoulin I. (Canada).—Parks, W. A., 4.
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Map of the world, geological.—Ahlburg, J.
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MAPS.

AFRICA (Central).
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- ——. Hot Springs of Lower Katanga. 1 : 2,000,000. 1913.—Mathieu, F. F., 7.
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- German East Africa. Route-map of district East of Udjidji. 1 : 1,000,000. 1913.—Tornau, F.
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- ——. Chellala District. 1 inch = about 4½ kilometres. 1913.—Joly, A., 2.
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- ——. Eastern Desert. Safaga District. 1 : 250,000; also Environs of Um El Huetat Mines. 1 : 10,000. 1913.—Ball, J., 2.
- ——. Gebel Moghara. 1 inch = 4 kilometres. 1913.—Couyat, J., 5.
- Sahara. Mauretania. 1 : 6,000,000. 1912.—Chudeau, R.
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- Tunis. Oulad Sidi Abid District. 1 : 350,000. 1912.—Roux, H.

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- Cape Province (*various*). 1912.—*See* Cape of Good Hope, Dep. Mines.
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- ——. Great Namaqualand. 1 : 2,000,000. 1913.—Range, P.
- ——. Kaoko-Land. 1 : 800,000. 1913.—Krause, C., 2.

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- Southern Nigeria. 1 inch = about 90 miles. 1913.—Evans, J. W., 5.

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- Mexico. District N.W. of Zacatecas. 1 : 25,000. 1912.—Villafaña, A.

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- America (North). 1 : 5,000,000. 1912.—Willis, B.
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- ——. Bonnifield Region. 1 : 250,000. 1912.—Capps, S. R.
- ——. Koyukuk-Chandalar District. 1 : 500,000. 1913.—Maddren, A. G.
- ——. Seward Peninsula. 1 : 1,500,000. 1913.—Henshaw, F. F., 4.
- ——. Yentna District. 1 : 250,000 1913.—Capps, S. R., 2.
- —— (*various*). 1912.—Brooks, A. H., 2; Cairnes, D. D.; Knopf, A. 1913.—Bretz, J. H.; Eakin, H. M.; Moffit, F. H.; Prindle, L. M.
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- ——. Coalfields (*various*). 1913.—Dowling, D. B.
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- ——. Peace River Coalfield. 1½ inches = 10 miles. 1913.—Galloway, C. E. J.
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——. Iraklià I. 1 : 73,030. 1913.—Papavasiliou, S. A.

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——. N. boundary of South Limburg Chalk Plateau (tectonic). 1 : 50,000. 1913.—Klein, W. C., 3.

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——. Emilia. Parma. Soragnota-Chioso District. 1 : 50,000. 1913. —Anelli, M.

——. Liguria. Crystalline massif area. 1 : 100,000. 1912.—Termier, P., 7.

——. Lombardy. Borno District. 1 : 75,000. 1913.—Cacciamali, G. B.

——. Pantelleria. 1 : 64,000. 1913. —Washington, H. S., 2.

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——. ——. Maritime Alps. Argentera Group. 1 : 100,000. 1911.—Sacco, F., 4.

——. Tuscany. Argentario Promontory [no scale]. 1913. — Fucini, A.

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Norway. Christiania District. 1 inch = 30 kilometres. 1913.—Högbom, A. G., 4.

——. ——. 1 : 1,200,000. 1912.—Holtedahl, O.

——. Hafslo Lake & Lyster Fjord. 1 inch = 2½ miles approx. 1913.—Monckton, H. W.

——. Helgeland. 1 : 750,000. 1911. —Oxaal, J.; 1 : 200,000. 1912.—Rekstad, J., 2.

——. Hitteren & Smölen Is. 1 inch = 12 kilometres. 1913.—Schetelig, J., 2.

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——. Snaröen-Fornebo District near Christiania. 1 : 7500. 1911. — Werenskiöld, W., 2.

——. Sœndre Fron. 1 : 100,000. 1911.—Werenskiöld, W., 2.

——. Söndhordland & Ryfylke. 1 : 400,000. 1913. — Rekstad, J., 7.

——. Svartisen District. 1 : 200,000. 1911.—Marstrander, R.

——. Svartisen & Rœsvand. 1 : 200,000. 1911.—Oxaal, J.

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Portugal. Guarda District. 1 inch = about 17 kilometres. 1913.—Segaud, —.

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——. Structure of Southern Carpathians. 1 : 1,500,000. 1912. — Murgoci, G.

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——. ——. Nalchik District. 1 inch = about 100 sashines. 1912. —Rengharten, W. P.

——. Livonia. Dorpat District, 1 inch = about 7 kilometres; environs of Dorpat, 1 inch = about 300 metres. 1913.—Muehlen, L. von zur.

——. Semirechensk Prov. District between Kopal & Ili R. 1:420,000. 1912.—Kazanskii, P., 2.

——. Lapland. Torneå-Trask District. 1 : 1,000,000. 1912.—Tilmann, N.

——. Ural Mts. Copper-Mining district. 1 inch = 80 miles. 1913. —Turner, H. W.

——. ——. Kalpak-Kazansky Range. 1 : 150,000. 1913. — Duparc, L., 3.

——. ——. Soïmonovsk Valley, &c. 1 : 30,000. 1913.—Kler, O.

——. ——. Naphtha District. 1 : 840.000. 1912.—Tikhonovich. N. N., 2.

Serbia. 1 inch = 13 miles approx. 1913.—Milojkovitch. F. A.

——. Majdan-Pek Mines (*various*). 1913.—Wendeborn. B. A.

Spain. Castille. Itinerary between Toledo & Urda. 1 : 200.000. 1912. —Hernández-Pacheco, E.

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Spain. Leon. Almaraz Tinfield, near Zamora. 1 inch=850 metres. 1913.—Preiswerk, H., 2.

——. Murcia. Chuecos, Tebar, Romeral, & Tejedor Iron-Mines. 1 inch = 850 metres. 1912.—Rubio y Muñoz, C.

——. ——. Iron-districts. 1 : 800,000. 1912.—Sánchez Lozano, R.

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——. Norrland. Nordingrå Region. 1 : 100,000. 1913.—Sobral, J. M.

——. ——. Ramstafjärden District. 1 : 25,000. 1913.—Sobral, J. M.

——. Scania. 1 : 400,000. 1913.—Erdmann, E.

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——. Aargau. District between Langeten & Suhr. 1 : 200,000. 1913.—Niggli, P., 3.

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——. Grisons. District between Septimer & Julier Passes. 1 inch =1·6 kilometres. 1913.—Cornelius, H. P.

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——. Uri. St. Gotthard Massif. Chloritoid Zone. 1 : 150,000. 1912. —Niggli, P.

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——. ——. Anhydrite, &c., in Hartlepool District. 1 inch=about $1\frac{1}{3}$ miles. 1913. — Trechmann, C. T.

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——. Lancashire. Irelath - in - Furness, 2 inches = 1 mile ; Greenscoe Crags, Dalton-in-Furness, 6 inches =1 mile. 1913.—Green, J. F. N.

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——. Staffordshire. Halesowen Sandstone Area. 1 mile = 3 inches. 1913.—Kay, H.
——. Suffolk. Glacial disturbances in the Stour, Brett, & Gipping Valleys. 1 inch = 1 mile. 1913.—Boswell, P. G. H.
——. Surrey. Bourne Valley. 1 inch = 4/5 mile. 1910.—Bromehead, C. E. N.
——. ——. Wimbledon Common & District. 1 inch=1·1 miles. 1912.—Johnson, W.
——. Sussex. Basin of Sussex Ouse. 1 inch = 6 miles. 1913.—Dawson, C., 2.
——. Warwickshire, &c. Birmingham District, 1 inch = 2 miles; also 1 inch = 11 miles. 1913.—Lapworth, C.
——. Yorkshire. North - Eastern portion; also distribution of moors. 1 inch=2 miles. 1912.—Elgee, F.
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——. Flintshire & Denbighshire Coalfields. 1 inch=10 miles. 1913.—Strahan, A.
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——. South Wales, with longitudinal sections across the Coalfield. 1 inch = 2 miles. Weston-super-Mare, 1912.—Dixon, E. E. L.
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——. Dumbartonshire. Kilpatrick Hills, 1 inch=1 mile. 1913.—Tyrrell, G. W., 3.
——. Forfarshire. Coast from Montrose to Red Head. 1 inch=about 3 miles. 1913.—Jowett, A.
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——. Lanarkshire. Garrion Gill. 1 inch=about 800 feet. 1913.—Macgregor, M.
——. Oil-Shale Fields of the Lothians. 4 miles=1 inch. 1913.—Cadell, H. M.
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ICELAND.
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MADAGASCAR.
Madagascar (*various*). 1911.—Lemoine, P.
NEW GUINEA.
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WORLD.
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——, larger geological.—Beyschlag, F. H. A., 3.
——, palæogeographic.—Dacqué, E.
——, Swedish mining.—Petersson, W.
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——, Madagascar. — Lacroix, A. F. A., 8.
——, Vermont.—Dale, T. N.; Perkins, G. H., 2.
——, flow of.—Adams, F. D., 2.
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Marburg (Hesse).—Herrmann, F.
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Marysville Butts (California).—Dickerson, R. E.
Masculostrobus.—Seward, A. C., 6.
Massachusetts (U.S.A.).—Bascom, F.; Warren, C. H.
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Mátra Mts. (Hungary).—Noszky, E., 1 & 2.
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Mazoe district (S. Rhodesia).—Wagner, P. A.
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Melanagrion.—Calvert, P. P.
Melania.—Boussac, J.; Katzer, F.; Lee, W. T.; Mansuy, H., 4.
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——, text-book.—Launay, L. de, 2.
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—— ——, India.—Brown, J. C.
—— ——, Katanga.—Delhaye, F.
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——, Australia.—Anderson, C., 1 & 2.
——, Cape Colony.—Prior, G. T.
——, German S.W. Africa.—Range, P. Schauf, W.
——, Georgia.—Watson, T. L.
——, India.—Cotter, G. de P.; Prior, G. T.
——, Kansas.—Merrill, G. P., 4.
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Miemite, Croatia —Tucan, F., 6.
Migmatitic rocks, origin of.—Sederholm, J. J., 7.
MIKHAILOVSKY, G. P., *Obit.* — *See* Shvetz, F. P., 2.
Milesburg Gap (P.).—Brown, T. C.
Miliana (Algeria).—Brives, A.
Miliolina.—Bagg, R. M.
Millom (Cumberland).—Green, J. F. N.
Millosevichite, new mineral.—Panichi, U.
Millstone Grit, origin of.—Gilligan, A.
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MILNE, J., *Obit.*—*See* Anon., 17; Gholitzuin, Prince B.; *&* Judd, J. W.
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Mine-waters, hot springs &.—Emmons, W. H., 3.
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Mineral-deposits.—*See also* Gold, *&c.*
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—— statistics.—*See* BRITISH COLUMBIA; GREAT BRITAIN, 5 & 6; INDIA; MYSORE; NEW ZEALAND; VICTORIA; *&* WESTERN AUSTRALIA.
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—— water, Lorraine. — Van Werveke, L.
Mineral water, Lorraine & Luxemburg. —Van Werveke, L., 8.
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—— ——, Yorkshire.—Burrell, B. A.
—— ——. *See also* Radioactive water.
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——, difference of potential between solutions &.—Wells, R. C.
——, list of new.—Kœchlin, R., 3; Schwantke, A.; Spencer, L. J.
——, melting-point of.—Nacken, R.
——, nomenclature of colloid.—Wherry, E. T., 2.
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——, in clays.—Azéma, L., 3.
Nickel Plate Mine (B.C.).—Camsell, C., 3.
Nieder Pöbel (Saxony).—Schwartz, F. A. H.
Nieder Ried (Berne).—Gerber, E., 2.
Nieszkowskia.—Perkins, G. H.
Nieuwernst Series.—Rogers, A. W.
Nièvre (France).—Grossouvre, A. de.
Nigeria. — Evans, J. W., 5; Kitson, A. E.; Parkinson, J., 3; *see also* Great Britain, Colonial Reports.
Nigrine.—Buttgenbach, H., 5.
Nikitinoceras, gen. nov.—Sokolov, D. N., 5.
Nileus.—Perkins, G. H.
Nilssonia. — Halle, T. G., 3; Seward, A. C., 1 & 2; Thomas, H. Hamshaw, 2.
Nîmes (Gard).—Carrière, G.
Ninnia.—Andrussov, N.
Niort (Deux-Sèvres).—Zeiller, R.
Nipigon (Manitoba). — Collins, W. H., 3.
Nismes (Namur).—Maillieux, E., 9.
Nisusia.—Walcott, C. D.
Nitrate-deposits.—Gale, H. S.
Nitrates, Chile.—Ossa, B. D.

Nitrates, Mexico & Texas. — Phillips, W. C.
Niukia R. (Amur). — Makerov, Y. A., 2.
Nodosaria. — Bagg, R. M.; Fœrster, B.
Nœggerathiopsis.—Zalessky, M. D.
Noetia.—Maury, C. J.
Nogueras (Pyrenees).—Dalloni, M.
Nome (Alaska).—Moffit, F. H.
Nomenclature, colloid minerals.—Tućan, F., 4; Wherry, E. T., 2.
——, palæontological.—Matthew, W. D., 3; Peale, A. C.
Nonionina.—Bagg, R. M.; Fœrster, B.
Norcia (Umbria). — Principi, P., 2; Verri, A.
Nord (France).—Gosselet, J. A. A., 3; Pruvost, P., 1 & 5.
Nord Coal-Basin (France).—Barrois, C., 3.
Nordingrå (Sweden).—Sobral, J. M.
Nordland (Norway).—Carstens, C. W.
Norfolk.—Clarke, W. G., 2; Hughes, T. McK.; Marr, J. E., 2; Nightingale, R. C.; Withers, T. H.
Norfolk I. (Pacific).—Laing, R. M.; Speight, R.
Norites.—Arthaber, G. von.
Normandy.—Anthoine, R., 3.
Norrbotten (Sweden).—Hamberg, A.; Skottsberg, C.
Norrland (Sweden).—Sobral, J. M.
Northamptonshire.—Andrews, C. W., 3; Irving, A., 2 & 4.
North Park (Colorado).—Washington, H. S., 3.
Northern Territory.—*See* Australia.
Northumberland.—Smith, S.; Strahan, A.; Weyman, G.; Woolacott, D., 1–3.
Northumberland volcanic plug (New York).—Cushing, H. P.
Norway.—Björlykke, K. O., 3; Brögger, A. W.; Bugge, C.; Carstens, C. W.; Goldschmidt, V. M., 2; Gregory, J. W.; Havnö, E. J.; Högbom, A. G., 4; Holmsen, G.; Holtedahl, O.; Hull, E.; Königsberger, J., 5; Landmark, J. D.; Marstrander, R.; Monckton, H. W.; Oxaal, J., 1 & 2; Œyen, P. A.; Rekstad, J., 1–3, 5; Reusch, H., 4, 5, 7, & 8; Schetelig, J.; Sjögren, H., 2; Vogt, J. H. L., 2; Werenskiold, W., 1 & 2.
Norway, earthquakes in 1911.—Kolderup, C. F., 2 & 3.
Norwich (Norfolk).—Withers, T. H.
Nosean-rocks.—Brauns, R.
Noteosaurus.—Broom, R., 3.
Notharctus.—Gregory, W. K.
Nothozoe.—Mansuy, H., 4.
Nothrotherium.—Stock, C.
Notothyris. — Mansuy, H.; Yakovlev, N.
Nottinghamshire.—Gibson, W.; Smith, Bernard; Strahan, A.
Nova Scotia.—Bell, W. A., 1 & 2; Faribault, E. R.; Gray, F. W.; Hills, V. G.; McIntosh, D. S.; Piers, H.; Termier, P. 2; Twenhofel, W. H.; Young, G. A.
Novaya Zemlya.—Sokolov, D. N., 5; Voit, F. W.
Novi (Croatia).—Kadić, O., 2.
Nubian Sandstone.—Ball, J.
Nucleolites.—Orbigny, A. D. d'.
Nucleolus.—Lambert, J.
Nucleospira.—Mansuy, H., 4; Prosser, C. S., 4; Schuchert, C., 4.
Nucula.—Bittner, A., 2; Bœhm, G.; Clarke, J. M., 7; Dickerson, R. E.; Fœrster, B.; Frech, F., 3 & 4; Harder, P.; Krumbeck, L.; Mark, C. G.; Orbigny, A. D. d'; Prosser, C. S., 4; Rollier, L., 2; Scupin, H.
Nuculana.—Clarke, J. M., 3 & 5.
Nuculites.—Clarke, J. M., 3 & 5; Kozlowski, R.; Prosser, C. S., 4.
Nuculopsis, subgen. nov.—Rollier, L., 2.
Nummulites.—Boussac, J.; Schmidle, W.; Schubert, R. J., 3.
——, evolution of.—Boussac, J.
——, oldest forms of. — Douvillé, H., 3.
Nummulitic rocks, Algeria. — Oppenheim, P., 2.
—— ——, Alps.—Boussac, J.
—— ——, Egypt.—Boussac, J., 4; Oppenheim, P., 2.
—— ——, France. — Bertrand, L., 3; Blayac, J., 2; Maury, E., 3.
—— ——, in the 'Schistes Lustrés.'—Boussac, J., 3.
Nuremberg (Bavaria). — Hörmann, K., 2.
Nussberg (Brunswick).—Riedel, A., 2.
Nyassa.—Prosser, C. S., 4.
Nyasaland.—Evans, J. W., 6.
Nyctiophylax.—Ulmer, G.
Nyirség R. district (Hungary).—Timkó, E., 2.

Oamaru (New Zealand). — Marshall, P., 5.
Oberlin (Ohio).—Hubbard, G. D.
Obernberg (Tyrol).—Canaval, R.
Oberschlottwitz (Saxony). — Michælis, P.
Oberstdorf (Swabia).—Mylius, H.
Oberstein (Rhenish Prussia).—Leidhold, C., 3.
Obimajora I. (Moluccas).—Wanner, J.
Obolella.—Davies, A. M., 2; Walcott, C. D., 1 & 2.
Obolus. — Mansuy, H., 4; Walcott, C. D.
Obornik (Posen).—Wolff, W.
Obsidian, Krakatoa.—Chelussi, I.
Obsidianites.—*See* Australites.
Ocean I. (Pacific).—Elschner, C.
Oceania, geology of.—Marshall, P.

Oceanography.—Penck, A., 2; Thoulet, J.
Oceans, chemical comparison of existing & Pre-Cambrian.—Daly, R. A.
——, permanence of.—Arldt, T.
——, salinity and age of.—Holmes, A.
Ocenebra.—Schaffer, F. X.
Ochsenkopf (Saxony).—Killig, F.
Octonaria.—Ulrich, E. O., 3.
Odenwald (Hesse).—Klemm, G., 2 & 3; Meyer, H. L. F., 2.
Oder-Vistula watershed.—Götzinger, G., 3; Kuzniar, W.
Odessa (Russia).—Khomenko, I., 2.
Odinite (Albania).—Nopcsa, F.
Odontaspis. — Leriche, M., 6; Priem, F.
Odontostomia.—Cossmann, A. E. M., 2; Dainelli, G.
Œcoptychius.—Fischer, E., 2.
Œnsingen (Solothurn).—Mühlberg, F.
Œsel (Brunswick).—Riedel, A., 1–3.
Œtztal Alps (Austria).—Klebelsberg, R. von, 4.
Offaster.—Brydone, R.M.
Ogmodirus, gen. nov.—Williston, S. W., 6.
Ogmomyia.—Ulmer, G.
Ohio (U.S.A.). — Burroughs, W. G.; Condit, D. D., 1 & 2; Dachnowski, A.; Girty, G. H., 2; Hubbard, G. D.; Johnston, J.; Mark, C. G.; Marshall, R. B., 5; Muller, M. L.; Prosser, C. S., 1 & 2; Stauffer, C. R.
Ohio R. basin (U.S.A.), surface-water.—Horton, A. H.
Oil-shale, Scotland. — Cadell, H. M.; Strahan, A., 8.
—— ——, South Australia. — Ward, L. K.
—— ——, Tasmania.—Hills, L.
——. *See also* Petroleum.
Oki Is. (Japan).—Kôzu, S.
Oklahoma (U. S. A.). — Buttram, F.; Ohern, D. W., 1 & 4; Snider, L. C., 1 & 2.
Olcostephanus.—Sauvage, H. E.; Sokolov, D. N., 5.
Old Hill Marls. — Arber, E. A. N., 2.
Oldham (Nova Scotia). — Faribault, E. R.
Old Red Sandstone, Kincardineshire.—Campbell, R., 1 & 3.
—— —— ——, Southall boring.—Proctor, E.
Olekma mining district (Siberia). — Kotulskii, V.
Olekma R. (Amur). — Makerov, Y. A., 2; Voznesenskii, V. A.
Olenellus.—Walcott, C. D., 2.
Oligocene, Algeria.—Dalloni, M., 2.
——, Alsace.—Fœrster, B.
——, Belgium.—Anthoine, R.
——, Bohemia.—Hibsch, J. E., 2.
——, Denmark.—Harder, P.
——, Devon.—Ussher, W. A. E., 2.
Oligocene, Dorset.—Bloomfield, A. H.; Keeping, H.
——, Europe.—Roman, F.
——, France.—Dareste de la Chavanne, J.; Durand, J., 2.
——, Hesse. — Schopp, H.; Schottler, W., 2 & 3.
——, Liguria.—Rovereto, G., 3.
——, Limburg.—Klein, W. C., 4.
——, Mangishlak Peninsula. — Bajarunass, M. W.
——, Moldavia.—Cosmovici, N. L.
——, Switzerland. — Mühlberg, F., 2; Niggli, P., 3.
——, Trinidad.—Maury, C. J.
——, Wyoming.—Lambe, L. M.
Oligocene-Miocene boundary, Venetia.—Oppenheim, P., 3.
Oliva.—Maury, C. J.
Olivella.—Cossmann, A. E. M., 2.
Oliverato.—Dickerson, R. E.
Olivine.—Busz, K., 2; Buttgenbach, H., 3; Himmelbauer, A.
Olivine-bombs, Madeira.—Gagel, C., 3.
Olivula.—Dickerson, R. E.
Olry, A., *Obit.*—*See* Zeiller, R., 2.
Olt, R. (Rumania).—Vâlsan, G.
Olti district (Russia). — Charnotzki, S., 3.
Ombria du Milieu (Fribourg).—Beaud, —.
Omeo (Victoria).—Skeats, E. W.
Omphalina.—Cockerell, T. D. A., 3.
Omphalocyclus.—Prever, P. L.
Omphaloptycha. — Hohenstein, V.; Kittl, E. A. L., 2.
Onchomatopus.—Perkins, G. H.
Oncophora Beds, Moravia. — Rzehak, A.
Onondaga formation.—Kindle, E. M., 3; Parks, W. A., 4 & 5.
Ontario (Canada).—Adams, F. D., 5; Baker, M. B., 1 & 2; Barlow, A. E.; Burrows, A. G.; Coleman, A. P., 1, 2, 4–7; Collins, W. H., 1 & 2; Foerste, A. F.; Graham, R. P. D.; Hore, R. E.; Knight, C. W.; Lindsey, G. G. C.; Miller, W. G., 2 & 4; Parks, W. A., 2, 4, & 5; Parsons, A. L., 1 & 2; Raymond, P. E.; Taylor, F. B., 2; Tyrrell, J. B.; Uglow, W. L.; Wilson, M. E.; 1 & 3; *see also* Ontario, Bur. Mines.
Ontario, Lake (Canada).—Spencer, J. W. W., 2.
Onychaster.—Sollas, J. B. J.
Onychiopsis.—Seward, A. C., 4.
Onychopterus.—Clarke, J. M., 6.
Ooceras.—Reed, F. R. C.
Oolite, Central Africa. — Fischer, H., 2.
——, Switzerland. — Ploeg, F. P. C. S. van der.
——, Belgian Carboniferous.—Anthoine, R., 2.
——, Famennian ferruginous. — Anthoine, R., 4.

Oolite, formation of.—Nahnsen, M.
——, lithology of ferruginous. — Thoreau, J.
——, Muschelkalk.—Hohenstein, V.
——, origin of Palæozoic.—Brown, T. C., 2.
——. *See also* Inferior Oolite, Jurassic, *&c.*
Oostrombus.—Boussac, J.
Opal.—Piers, H.
Opalia.—Cossmann, A. E. M.
Operculina.—Prever, P. L.
Ophiacodon.—Williston, S. W.
Ophicalcite.—Cornelius, H. P.
Ophicardelus. — Cossmann, A. E. M., 2.
Ophiurida, Carboniferous. — Sollas, I. B. J.
Ophryaster, gen. nov.—Spencer, W. K.
Ophryastes & *Ophryastites.*—Wickham, H. F.
Opiliotarbus.—Petrunkevich, A.
Opis.—Frech, F., 4; Mansuy, H.
Opisaster.—Fourtau, R., 2.
Opisoma.—Mansuy, H.
Opisthacanthus.—Petrunkevich, A.
Oploo Boring (N. Brabant).—Tesch, P.
Oppelia.—Favre, F.
Oppeliidæ, classification of.—Douvillé, R., 3.
Oppeln (Silesia).—Wegner, R. N.
Oppenheimia.—Boussac, J.
Optical indicatrix.—Wright, F. E., 2.
Optics.—*See* Crystals.
Oran (Algeria).—Dalloni, M., 3.
Orange Free State.—Noth, J., 2.
Oravica (Hungary).—Liffa, A., 2.
Orbicella.—Felix, J.
Orbiculoidea.—Clarke, J. M., 3, 5, & 7; Davies, A. M., 2; Kozlowski, R.; Leriche, M.; Mansuy, H., 4; Prosser, C. S., 4; Stauffer, C. R.; Schuchert, C., 4; Walcott, C. D.
Orbulina.—Bagg, R. M.; Schmidle, W.
Orcombe Point (Devon).—Carus-Wilson, C., 4.
Orcula.—Germain, L.
Ord Hill (Aberdeen).—Mackie, W.
Ordovician, America (North).—Grabau, A. W., 1 & 4; Willis, B.
——, Belgium.—Maillieux, E., 6.
——, Bohemia.—Zelízko, J. V., 2.
——, Canada.— Foerste, A. F.; Johnston, W. A.; Parks, W. A., 3 & 4; Raymond, P. E., 1–3.
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——, Nova Scotia.—Twenhofel, W. H.
——, Ontario.—Parks, W. A.
——, Pennsylvania.—Brown, T. C., 2.
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——, Vermont.—Dale, T. N., 2; Perkins, G. H.
Ordovician, Victoria.—Howitt, A. M.; Skeats, E. W., 2.
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——, Yunnan.—Deprat, J., 4.
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—— ——, Alsace.—Bücking, H.
—— ——, Alaska.—Knopf, A.
—— ——, Arizona. — Notman, A.; Stewart, C. A., 1 & 4.
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—— ——, Chile.—Thiel, H.
—— ——, Colorado.—Lindgren, W.
—— ——, Congo Belge. — Guillemain, C., 2.
—— ——, Dobrudsha.—Motas, C.
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—— ——, Harz.— Baumgärtel, B., 2; Stutzer, O., 4.
—— ——, Hungary.— Ahlburg, J., 3; Rozlozsnik, P.
—— ——, Idaho.—Umpleby, J. B.
—— ——, Japan.—Iwasaki, E.
—— ——, Montana.—Emmons, W. H., 2; Knopf, A., 2 & 4.
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—— ——, Norway.—Sjögren, H., 2.
—— ——, Ontario.—Coleman, A. P., 4.
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—— ——, Rammelsberg.—Wolff, —.
—— ——, Riesengebirge.—Berg, C.
—— ——, Saxony.—Beck, R.; Schwartz, F. A. H.
—— ——, Silesia.—Beyschlag, F. H. A., 4; Michael, R., 3; Schulz, E.
—— ——, Styria.—Redlich, K. A.
—— ——, Sweden. — Sjögren, H., 2; Tegengren, F. R., 2.
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—— ——, Tyrol.— Canaval, R.; Granigg, B., 2
—— ——, U.S.A.—Emmons, W. H.
—— ——, Utah.—Butler, B. S., 1 & 2.
—— ——, Victoria.—Junner, N. R.
—— ——, Waihi.—Lett, S. J.
—— ——, Washington.—Weaver, C. E., 2.
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—— ——, electrochemistry of.—Wells, R. C., 3.
—— ——, enrichment of.—Brokaw, A. D.; Collins, G. E.
—— ——, genesis of.—Lazarevic, M.
—— ——, origin of primary & secondary.—Krusch, P., 4.
—— ——, text-book. — Launay, L. de, 2.
—— ——. *See also* Secondary enrichment.
Ore-formation, metamorphism &.—Harder, E. C.

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Orenburg (Russia).—Sokolov, D. N., 2.
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Orillia (Ontario).—Johnston, W. A.
Orindan Beds.—Merriam, J. C., 5.
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Orophocrinus.—Bather, F. A., 2.
Oro R. (Sahara).—Dollfus, G. F.; Font y Sagué, N.
Örsmussen (Sweden).) — Sernander, R., 3.
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Orthisina.—Lœwe, H.
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Orthogneiss, Canada.—Daly, R. A., 2.
——, Hungary.—Horváth, B. von.
Orthomylacris.—Pruvost, P., 5.
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Orthonota.— Kozlowski, R.; Prosser, C. S., 4.
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Orthophragmina.—Prever, P. L.
Orthophyre.—Tyrrell, G. W.
Orthopora.—Ulrich, E. O., 3.
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Osthimosia.—Canu, F.
Ostodolepis.—Williston, S. W., 2.
Ostracoda, Cambrian.—Mansuy, H., 4.
——, Devonian.—Leriche, M.; Prosser, C. S., 4; Ulrich, E. O., 3.
——, Quaternary.—Hucke, —.
——, Ordovician.—Reed, F. R. C.
——, Silurian.—Mansuy, H., 4; Stauffer, C. R.
——, Triassic.—Méhes, G.
Ostraite.—Duparc, L.
Ostrea.—Bittner, A., 2; Boussac, J.; Dollfus, G. F.; Fœrster, B.; Hofmann, K.; Lee, W. T.; Maury, C. J.; Newton, R. B.; Orbigny, A. D. d'; Scupin, H.; Lintzov, I. T.; Vincent, E.; Woods, H.
Ostreidæ, phylogeny of.—Jaworski, E.
Otawi (S.W. Africa). — Dübigk, H.; Gürich, G.
Otiorhynchites.—Wickham, H. F.
Otoites.—Buckman, S. S., 2.
Otoliths, Tertiary. — Neumayer, L.; Priem, F., 3; Schubert, R. J.; Stolley, E., 2.
Otozamites.—Halle, T. G., 3; Krishtofovich, A.; Seward, A. C., 4.
Ottawa (Canada).—Goldthwait, J. W., 3; Raymond, P. E., 3; Stansfield, J.
Ottrelite.—*See* Chloritoid.
Ouibat R. Basin (Siberia).— Stalnov, G. A.
Overfolds, Provence.—Repelin, J., 3.
——, Pyrenees.—Bertrand, L.
Overlaps, Mesozoic.—Davies, A. M., 2.
Overlook Mts. (N.Y.).—Stevens, N. E.
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——, Austrian Alps.—Haug, E., 2.
——, Basses Alpes.—Haug, E.
——, Bavaria.—Kranz, W.
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——, Salzkammergut. — Spengler, E., 3.
——, Switzerland.—Gerth, H., 2; Mühlberg, F.
——, Var.—Repelin, J., 3.
Overtown (Lanark).—Macgregor, M.
Ovibos.—Allen, J. A.; Bjœrlykke, K. O., 2; Kowarzik, R.; Œyen, P. A.; Reusch, H. 2.
Ovifak (Greenland).—Benedicks, C.
Owens Valley (California).—Lee, C. H.
Oxalite.—Manasse, E.
Oxford Clay, reptilia of.—Andrews, C. W., 3.
Oxfordian, Caucasus.—Renz, C., 6.
——, France.—Riaz, A. de.
——, Hanover.—Lœwe, F.
——, Haute-Savoie.—Chaix, A.
——, Tyrol.—Trener, G. B.
Oxfordshire.—Odling, M.; Strahan, A.
Oxynoticeras.— Frech, F., 9; Pia, J. von; Sokolov, D. N., 4.
Oxyrhina.—Priem, F.
Oxystele.—Schaffer, F. X.
Oxytoma.—Ravn, J. P. J.
Oyster-beds, Vendée.—Villain, P.
Ozokerite, Tanganyika.—Tornau, F.

Pachnolite.—Bøggild, O. B., 2 & 3.
Pachyceras.—Buckman, S. S.; Douvillé, R.
Pachydiscus.—Scupin, H.
Pachydomella.—Ulrich, E. O., 3.
Pachyerisma.—Rollier, L., 2.
Pachygenulus.—Watson, D. M. S., 3.
Pachypora.—Mansuy, H., 4.
Pachypteris.—Halle, T. G., 3.
Pachytesta.—Nathorst, A. G., 2.
Pacific Basin, permanence of.—Marshall, P.

Pacific Is., phosphate-deposits of. — Elschner, C.
Padalarang (Java).—Douglas, E. A.
Pagiophyllum.—Halle, T. G., 3; Seward, A. C., 2.
Painted Desert (Arizona).—Keyes, C. R., 2.
Painter, Mt. (South Australia).—Ward, L. K., 3.
Palæagapetus.—Ulmer, G.
Palæanatina.—Clarke, J. M., 3, 5, & 7.
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Palæocardita.—Böckh, J. von.
Palæocrunœcia.—Ulmer, G
Palæogene, Russia.—Rozanov, A. N.
Palæogeographic maps.—Dacqué, E.
Palæogeography.—Arldt, T., 1 & 2.
——, America (N.).—Haseman, J. D.
——, —— (S.).—Schuchert, C., 2.
——, Antarctica.—Hedley, C.
——, North Atlantic Eocene.—Semper, M., 2.
——, Cambrian.—Peach, B. N.
——, sedimentation &.—Andrée, K., 3.
Palæolenus, gen. nov.—Mansuy, H., 4.
Palæolepidostoma.—Ulmer, G.
Palæolithic Age, Algeria.—Dalloni, M., 3.
—— ——, Bavaria.—Kellermann, —; Rossbach, G.
—— ——, Eifel.—Sommermeier, L.
—— ——, Germany.—Menzel, H., 3.
—— ——, fauna of.—Wiegers, F.
—— deposits, France.—Commont, V.
—— ——, Kent.—Smith, R. A., 2.
—— ——, Norfolk.—Marr, J. E., 3.
—— ——, phosphate-formation in. — Teilhard de Chardin, P.
—— remains, Essex.—Warren, S. H., 2.
Palæoliths.—Bury, H.; *see also* Implements.
Palæomeryx.—Wegner, R. N.
Palæoneilo.—Bittner, A., 2; Clarke, J. M., 3, 5, & 7; Krumbeck, L.; Mansuy, H., 4; Prosser, C. S., 4; Reed, F. R. C.; Stauffer, C. R.
Palæoniscus.—Broom, R., 5.
Palæontological Society, the German.—Jækel, O., 4.
Palæontology, aims & methods of.—Jækel, O., 3.
——, evolution &.—Osborn, H. F., 7.
——, nomenclature in.—Burling, L. D.; Matthew, W. D., 3; Peale, A. C.
——, South African vertebrate.—Broom, R.
Palæontology, text-book.—Zittel, K. A. von.
——. *See also* INTERN. CAT. SCI. LIT.; *&* PALÆONT. UNIVERSALIS.
Palæopedina.—Bather, F. A.
Palæopinna.—Ohern, D. W., 5.
Palæopisthacanthus.—Petrunkevich, A.
Palæoryx & *Palæotragus.*—Khomenko, I.
Palæosolen.—Prosser, C. S., 4.
Palæospiza.—Shufeldt, R. W., 2.
Palæoteuthis.—Orbigny, A. D. d'.
Palæozoic, America (Arctic).—Frech, F., 7.
——, —— (North).—Grabau, A. W., 2 & 4.
——, Carnic Alps.—Vinassa de Regny, P. E., 3.
——, China.—Pellizzari, G.
——, Greece.—Renz, C.
——, Idaho & Wyoming.—Blackwelder, E., 2.
——, Utah.—Richardson, G. B.
Palæozoic platform, England.—Barrow, G., 4; Davies, A. M.; Dawkins, W. B.; Strahan, A., 3.
——. *See also* Silurian, *&c.*
Palencia (Spain).—Hernandez-Pacheco, E., 3.
Paleocene, Congo Belge.—Vincent, E.
Palermo (Sicily).—Wepfer, E.
Palestine.—Blanckenhorn, M.
Palmatopteris.—Gothan, W., 2.
Palocsa (Hungary).—Limanowski, M., 1 & 2.
Paltopleuroceras.—Buckman, S. S., 2.
Paludina.—Menzel, H., 4.
Pampa formations, Patagonia.—Fenton, E. G.
Pampas (Argentina).—Rovereto, G.
'Pan,' formation of.—Polynov, B.
Panama.—Brown, A. P., 1 & 2; Cornish, V.; Macdonald, D. F.; *see also* CONGRÈS GÉOL. INTERNAT.
Panarotti (Venetia).—Fabiani, R.
Panenka.—Prosser, C. S., 4.
Pangasinan (Philippine Is.).—Fanning, P. R.
Panhalonga (S. Rhodesia).—Ranfaldi, F., 2.
Panopœa.—Orbigny, A. D. d'; Scupin, H.
Pantelleria, volcanoes of.—Washington, H. S., 2.
Papaloapam R. (Mexico).—Wittich, E., 3.
Papiol (Catalonia).—Pruvost, P., 4.
Paptelek (Hungary).—Roth von Telegd, L., 3.
Parabolinella.—Lake, P.
Paracale (Philippine Is.).—Fanning, P. R., 3.
Paracandona.—Hucke, —.
Paracardium.—Clarke, J. M., 7.
Paracyclas.—Clarke, J. M., 7; Mansuy, H.; Prosser, C. S., 4; Stauffer, C. R.
Paradechenella.—Richter, R.

Paradoxides.—Cobbold, E. S., 2 & 3.
Parahoplites.—Sintzov, I. T.
Paralates.—Fœrster, B.
Parallel roads, Norway.—Rekstad, J., 3.
Parallelodon.—Cramer, R.; Mark, C. G.; Prosser, C. S., 4; Rollier, L., 2.
Parallelodus.—Branson, E. B.
Paraná (Argentina).—Priem, F.
Paraná R. (Argentina).—Carles, E. de.
Paraná (Brazil).—Clarke, J. M., 5; Kozlowski, R.
Paranaia.—Clarke, J. M., 3.
Paraprothyris.—Clarke, J. M., 5.
Parascutum.—Cossmann, A. E. M., 2.
Parasmilia.—Wegner, R. N.
Parastrophia.—Reed, F. R. C.
Paratibetites.—Mansuy, H., 4.
Pareiasaurus.—Broom, R., 2.
Pareiasuchus.—Broom, R., 12.
Paria (Utah).—Lawson, A. C., 2.
Paris Basin (France).—Bergeron, J., 2; Bochin, F.; Boury, E. de, 2 & 3; Dollfus, G. F., 2; Jodot, P., 2; Lemoine, P., 4; Mary, A., 2.
PARISH, Sir WOODBINE, *Biogr.* — *See* Shuttleworth, N. L. K.
Park City district (Utah).—Boutwell, J. M.
Parka decipiens.—Don, A. W. R.
PARKER, J., *Obit.*—*See* Strahan, A., 2.
Parkinsonia.—Renz, C., 6.
Parma (Italy).—Anelli, M.
Parschlug (Styria).—Gaulhofer, K.
Parodiceras.—Prosser, C. S., 4.
Paronæa.—Prever, P. L.
Paroniceras.—Renz, C., 7.
Parry I. (Canada).—Parks, W. A., 4.
PARSONS, H. F., *Obit.*—*See* Woodward, H. B., 2.
Partula.—Cossmann, A. E. M., 2.
Parvirota.—Dainelli, G.
Pasceolus.—Reed, F. R. C.
Pas-de-Calais (France). — Breton, L.; Gosselet, J. A. A., 1 & 2; Pruvost, P.
Pasitheola.—Cossmann, A. E. M., 2.
Passau (Bavaria).—Till, A.
Pasterz Glacier (Tyrol).—Angerer, H.
Patagonia.—Felsch, J., 1 & 3; Fenton, E. G.; Gregory, J. W.; Hauthal, R.; Quensel, P. D.; *see also* 'BELGICA' Expéd.
Patagonia (Arizona).—Schrader, F. C.
Patella. — Boussac, J.; Dainelli, G.; Schaffer, F. X., 1 & 2; Scupin, H.
—— sands, Austria. — Schaffer, F. X., 2.
Patellina.—Prever, P. L.
Paterina.—Walcott, C. D.
Patinopecten.—Suter, H.
Patom R. (Siberia).—Kotulskii, V.
Paulding Co. (Georgia).—Watson, T. L.
Paumotu Archipelago.—Marshall, P.
Pawtucket (Rhode Island).—Haynes, W. P.
Pay-streak, placer-deposits.—Tyrrell, J. B., 3.
Pays Basque.—Lapparent, J. de.
Peace River Cañon (B.C.). — Galloway, C. F. J.
Peat, Abruzzi.—Pullé, G., 2.
——, Alps.—Brueckner, E., 5 & 6.
——, Hungary.—László, G., 2.
——, Mont Dore.—Bruyant, C.
——, Ohio.—Dachnowski, A.
——, Sweden.—Post, L. von, 2; Sernander, R., 1 & 3.
——, formation of.—Dachnowski, A.
Pebbles, facetted.—Harger, H. S., 2.
——, in molasse, Baden.—Schmidle, W.
——, leaching of.—Udden, J. A.
——, Rand Banket.—Young, R. B., 2.
Pecopteris.—Gothan, W., 2.
Pecten.—Bittner, A., 2; Brown, A. P.; Davis, C. H.; Fischer, E., 2; Frech, F., 3-5; Harder, P.; Hofmann, K.; Krumbeck, L.; Mansuy, H., 1 & 4; Orbigny, A. D. d'; Ravn, J. P. J.; Shvetz, F. P.; Suter, H.; Toni, A. de; Vogl, V.
Pectunculus.—Boussac, J.; Harder, P.; Scupin, H.
Pegmatite.—Duparc, L., 6.
——, Brazil.—Jenkins, O. P.
——, Canada.—Adams, F. D., 5.
——, Dakota.—Duncan, G. S.
——, Elba.—Manasse, E.
——, Madagascar.—Duparc, L., 6; Lacroix, A. F. A.
——, New South Wales.—Jevons, H. S., 2.
——, Norway. — Marstrander, R.; Reusch, H., 7.
——, Sweden.—Wallerius, I. D.
——, Vermont.—Richardson, C. H., 2.
Pelecypoda.—*See* Lamellibranchia.
Pelew Is.—Marshall, P.
Pelletieria, gen. nov.—Seward, A. C., 4.
Pellice Valley (Piedmont).—Roccati, A.
Peloneustes.—Andrews, C. W., 3; Linder, H.
Peloponnesus (Greece).—Négris, P., 1 & 6.
Pelosaurus.—Reis, O. M., 2.
Peltoceras.—Spath, L. F.
Peltoceras Beds, Alpes-Maritimes. — Riaz, A. de.
—— *-athleta* fauna.—Douvillé, R., 2.
Pembrokeshire.—Goode, R. H.; Leach, A. L.
PENFIELD protractor.—Calkins, F. C.
PENGELLY, W., *Biogr.*—*See* Julian, H. F.
Pennaia.—Clarke, J. M., 3.
PENNANT, T., fossil collection of.—Newton, R. B., 2.
——, mineral collection of.—Smith, W. C.
Pennsylvania (U.S.A.).—Brown, T. C., 1 & 2; Darton, N. H.; Marshall, R. B., 2; Wherry, E. T.; White, I. C., 2; Wright, G. F.
Pennsylvanian, America (N.).—Willis, B.
——, Missouri.—Hinds, H.

Pennsylvanian, Montana.—Emmons, W. H., 2.
——, Nova Scotia.—Twenhofel, W. H.
Pentacrinus.—Bather, F. A.; Krumbeck, L.; Orbigny, A. D. d'; Pia, J. von.
Pentagonaster.—Chapman, F., 3.
Pentamerus.—Asselbergs, E.; Gortani, M., 2; Reed, F. R. C.
Peratotoma.—Cossmann, A. E. M., 2.
Perca.—Schubert, R. J.
Percé (Quebec).—Clarke, J. M., 2.
Perforatella.—Germain, L.
Periclase.—Westphal, O.
Pericosmus.—Fourtau, R., 2.
Peridipsaccus.—Schaffer, F. X.
Peridotite, Egypt.—Ball, J.
——, Utah.—Boutwell, J. M.
——, W. Australia.—Thomson, J. A.
Perín (Murcia).—Gálvez-Cañero, A. de.
Perischodomus.—Hawkins, H. L., 2.
Perisphinctes.—Fischer, E., 2; Renz, C., 6; Salfeld, H.; Sauvage, H. E.; Spath, L. F.; Steinmann, J. H. C. G. G., 4.
Perissomyia.—Ulmer, G.
Perm (Russia).—Nikolaev, A. B.
Permian, America (N.).—Willis, B.
——, Annam.—Mansuy, H.
——, Arizona.—Gregory, H. E.
——, Bohemia.—Hibsch, J. E., 2.
——, Brazil.—Branner, J. C.
——, Colorado.—Girty, G. H.
——, Devon.—Ussher, W. A. E., 2.
——, Durham. — Trechmann, C. T.; Woolacott, D., 1 & 2.
——, Germany.—Seidl, E.
——, Holland.—Molengraaff, G. A. F.
——, Idaho.—Blackwelder, E., 2.
——, Missouri.—Keyes, C. R.
——, New Caledonia.—Piroutet, M.
——, Northumberland.—Woolacott, D.
——, Nottinghamshire. — Gibson, W.; Smith, Bernard.
——, Texas.—Broili, F.
——, Timor I.—Wanner, J., 2.
——, Yunnan.—Deprat, J., 4.
Permian-Trias boundary, Baden.—Wilser, J.
Permo-Carboniferous, New South Wales. —Walkom, A. B., 1 & 2.
—— ——, Northern Territory of Australia.—Woolnough, W. G.
—— ——, Nova Scotia.—Young, G. A.
—— ——, Tasmania.—Dun, W. S., 3; Hills, L.
—— —— glaciation, Western Australia. —Maitland, A. G.
Perna. — Frech, F., 5; Koken, E.; Maury, C. J.; Ravn, J. P. J.; Scupin, H.
Peronœa.—Dollfus, G. F.
Perone, Monte (Elba).—Aloisi, P., 3.
Peroniceras.—Scupin, H.
Perovskite.—Bœggild, O. B.
Perrona.—Schaffer, F. X.; Suter, H.
Perryville (Missouri). — Merrill, G. P., 3.
Persia.—Brouard, C. A.; Pilgrim, G. E.; Rabino, H. L.; Stahl, A. F.
Persicula.—Cossmann, A. E. M., 2.
Perthite.—Rogers, A. F., 4.
Perthshire.—Barrow, G., 3; Jehu, T. J.
Peru. — Bingham, H.; Bowman, I.; Eaton, G. F.; Gregory, H. E., 2; Hillebrand, W. F., 3; Jimenez, C. P.; Marsters, V. F.; Steinmann, J. H. C. G. G., 4 & 5.
Perwez (Brabant).—Doyen, A.
Pesarina (Italy).—Vinassa de Regny, P. E.
Petalograptus.—Postlethwaite, J.
Petalopora.—Wegner, R. N.
Petchora (Russia).—Sokolov, D. N.
Peterborough (Northants). —Andrews, C. W., 3; Irving, A., 2 & 4.
Petrographic description in surveying.—Berkey, C. P.
Petrography, chemical.—Osann, A.
——, graphic methods in.—Wright, F. E., 4.
——, microscopical. — Wright, F. E., 6.
——, physical chemistry &.—Day, A. L.; Vogt, J. H. L.
——, sedimentary rocks.—Rogers, G. S., 2.
——, text-books.—Hatch, F. H., 2; Iddings, J. P.; Mennell, F. P.
——, use of microscope in.—Wright, F. E., 1-4 & 6.
——. *See also* Rocks.
Petroleum, Africa (S.W.).—Range, P.
——, Argentina.—Bonarelli, G.; Cruchaga, M.
——, America.—Simmersbach, B.
——, Burma.—Cholmeley, N. G.
——, California.—Louderback, G. D.
——, Canada. *See* CANADA, Dep. of Mines, 3.
——, Chile.—Felsch, J., 1 & 3.
——, Galicia.—Noth, J., 3.
——, Mexico.—White, I. C.
——, New Zealand.—Clarke, E. de C.
——, Ohio.—Hubbard, G. D.
——, Oklahoma.—Ohern, D. W., 4.
——, Orange Free State.—Noth, J., 2.
——, Persia.—Stahl, A. F.
——, Persian Gulf.—Pilgrim, G. E.
——, Rumania.—Tănăsescu, I., 1 & 2.
——, Russia.—Hautpick, E. de, 5.
——, South Australia.—Ward, L. K.
——, Sumatra.—Tobler, A.
——, Texas.—Udden, J. A., 2.
——, Tierra del Fuego.—Felsch, J.
——, U.S.A.—Campbell, M. R.; Gould, C. N.
——, Wyoming.—Chautard, J.
——, distillation - products of. — Edeleanu, L.
——, geochemistry of.—Rakusin, M. A., 2.
——, influence of wind on accumulation of.—Branner, J. C., 2.
——, natural history of.—Wade, A., 2.

Petroleum, statistics of production.—Tănăsescu, I., 2.
——, underground temperature &.—Tănăsescu, I.
Petroleum-bearing regions, classification of.—Smith, G. O., 2.
Petrosphæria.—Stopes, M. C. C., 6.
Pettycur Limestone, flora of.—Gordon, W. T., 2.
Petuntzyte.—Coon, J. M.
Peyroulets.—*See* Cirques.
Pfalz Coal-basin (Germany).—Böker, H. E., 2.
Phacoides.—Vincent, E.
Phacops.—Clarke, J. M., 7; Marr, J. E.; Ohern, D. W., 5; Prosser, C. S., 4, Stauffer, C. R.
Phænodesmia.—Krumbeck, L.
Phanerotinus & *Pharetrella.*—Clarke, J. M., 7.
Pharetrones, organization of.—Rauff, H.
Phasianella.—Orbigny, A. D. d'.
Phenacolestes.—Calvert, P. P.
Phené, J. S., *Obit.*—*See* Strahan, A., 2.
Philhedra.—Walcott, C. D.
Philine.—Cossmann, A. E. M., 2.
Philippiella.—Frech, F., 5.
Philippine Is.—Cox, A. J., 2; Dalburg, F. A.; Eddingfield, F. T., 2 & 3; Fanning, P. R., 1–3; Ferguson, H. G.; Smith, W. D., 1 & 2; *see also* Philippine Is., Dept. of Interior.
Philipsburg (Montana).—Emmons, W. H., 2.
Phillipsastræa.—Grabau, A. W., 3.
Phillipsia.—Pruvost, P., 4; Richter, R.; Stauffer, C. R.
Philopotamus.—Ulmer, G.
Phocidaster, gen. nov.—Spencer, W. K.
Phœnocopsis.—Seward, A. C., 2.
Pholadella.—Clarke, J. M., 3 & 5; Prosser, C. S., 4.
Pholadomya.—Boussac, J.
Pholas.—Björlykke, K. O., 3; Maury, C. J.
Pholerite.—Ledoux, A., 3.
Pholidophorus.—Krumbeck, L.
Pholidops.—Kozlowski, R.; Prosser, C. S., 4; Schuchert, C., 4.
Pholidosaurus.—Andrews, C. W.
Pholidostrophia.—Prosser, C. S., 4; Stauffer, C. R.
Phonolite, Transvaal.—Humphrey, W. A.
——, Tunis.—Pervinquière, L.
——, Victoria.—Skeats, E. W.
Phos.—Dickerson, R. E.
Phosphates, Ardennes.—Douvillé, R., 10.
——, Canada.—Baker, M. B.
——, Egypt.—Ball, J., 2–4.
——, Montana.—Lindgren, W.
——, Pacific Is.—Elschner, C.
——, Palæolithic.—Teilhard de Chardin, P.
Phosphatic Chalk, origin of.—Cornet, J., 2.
Phosphorite.—Chirvinskii, V.; Rogers, A. F., 5.
Photographs, geological.—Woodward, H. B., 3.
Photography in underground geology.—Baumgärtel, B.
Phragmites.—Fœrster, B.
Phragmoteuthis.—Mansuy, H., 2.
Phryganea.—Ulmer, G.
Phrynosuchus.—Broom, R., 6.
Phthonia.—Clarke, J. M., 3; Prosser, C. S., 4.
Phyllite, Argyll.—Bailey, E. B.
——, Grisons.—Cornelius, H. P.
——, Moravia.—Suess, F. E., 2.
——, Norway.—Rekstad, J.
——, Saxony.—Killig, F.
——, W. Australia.—Farquharson, R. A.
Phyloblatta.—Pruvost, P., 5.
Phylloceras.—Bœhm, G., 2; Frech, F., 9; Pia, J. von; Spath, L. F.; Toni, A. de; Tzuitovich, K. A.; Vadász, M. E.
Phyllocœnia.—Blanckenhorn, M.; Krumbeck, L.
Phyllograptus.—Postlethwaite, J.
Phyllopoda, Coal Measures.—Haynes, W. P.
——, Trias.—Frech, F., 3; Mansuy, H., 1 & 2.
Phyllopora.—Mansuy, H., 1 & 4.
Phylloporina.—Reed, F. R. C.
Phylocentropus.—Ulmer, G.
Phylogeny, correlation &.—Matthew, W. D., 2.
Phymatoceras.—Buckman, S. S., 2.
Physa.—Cossmann, A. E. M., 2.
Physiographic geology, field methods in.—Johnson, D. W.
Physiography, climate &.—Penck, A., 3.
Physocardia.—Frech, F., 4; Koken, E.
Phytosauria.—Mehl, M. G.
Pianico Sellere (Lombardy).—Baltzer, A.
Pianosa I.—Stefano, G. de, 1 & 3.
Picea.—Fœrster, B.
Pickering, W. H., *Obit.*—*See* Strahan, A., 2.
Pickeringite.—Zilbermintz, V. A.
Picrite.—Rhodes, J. E. W.
Piediluco (Abruzzi).—Clerici, E., 2.
Piedmont (Italy).—Ceruti, G.; Colomba, L.; Roccati, A.; Sacco, F., 2 & 4; Schuermann, E., 2.
Pikermi (Greece).—Abel, O.
Pilandsberg (Transvaal).—Humphrey, W. A.
Pilgrim's Rest (Transvaal).—Dessauer, A. von.
Pillow-lava, Argyll.—Bailey, E. B.
——, Devon.—Reid, C., 3; Ussher, W. A. E., 2.
——, New South Wales.—Benson, W. N.
Pilsenetz (Bohemia).—Zelízko, J. V., 2.
Piltdown man.—Dawson, C.; Keith, A.; Kolderup, C. F.; McCurdy, G. G.; Smith, G. E., 1–3; Waterston, D.; Woodward, A. S.

Piltdown (Sussex).—Dawson, C., 2; Irving, A., 3.
Pimbo (Landes).—Dubalen, P. E., 2.
Pinacoceras.—Frech, F., 3.
Pines I. (Cuba).—Jennings, O. E.
Pinguente (Istria).—Waagen, L.
Pinite.—Worth, R. H.
Pinites.—Seward, A. C., 1 & 4.
Pinitoid.—Lovisato, D., 2.
Pinna.—Boussac, J.; Krumbeck, L.; Scupin, H.; Vincent, E.
Pinus.—Holden, R.; Nathorst, A. G., 2; Thomson, R. B.
Pirinella.—Newton, R. B.; Schaffer, F. X.
Pirostoma.—Germain, L.
Pirula.—Boussac, J.
Pisanella.—Harder, P.
Pisano, Monte (Tuscany).—Campana, D. del, 3; Fucini, A., 2.
Pisces, Carboniferous.—Eastman, C. R.
——, Cretaceous.—Hennig, E., 3; Hussakof, L.; Scupin, H.; Woodward, A. S., 2.
——, Devonian.—Dollo, L., 2; Fraipont, C.; Leriche, M., 3, Swartz, C. K.; Woodward, A. S., 4.
——, Eocene.—Neumayer, L.; Priem, F., 3; Schröder, H.
——, Jurassic.—Drevermann, F.
——, Karroo.—Broom, R., 5.
——, Liassic.—Frost, G. A.
——, Oligocene.—Fœrster, B.
——, Paleocene.—Leriche, M., 6.
——, Permian.—Reis, O. M., 2.
——, Silurian.—Mansuy, H., 4.
——, Tertiary.—Chapman, F., 7; Jordan, D. S.; Leriche, M., 6; Priem, F., 1 & 2; Krumbeck, L.
——, Triassic.—Tommasi, A.
—— (Edestidæ).—Karpinsky, A.
——, geological distribution of.—Deecke, W., 6.
——. *See also* Otoliths.
Pisidium.—Germain, L.; Woodward, B. B.
Pisolite.—Dollfus, G. F., 10; Stahl, W.; Wichmann, A., 2.
Pisolitic limestone, Paris Basin.—Dollfus, G. F., 2.
Pitaria.—Maury, C. J.
Pithecanthropus.—Berry, E. W.
Pityophyllum.—Seward, A. C., 1 & 2.
Pityoxylon.—Holden, R.
Placard Fault, Hainault Coalfield.—Demeure, A.
Placenticeras.—Scupin, H.
Placer-deposits.—Tyrrell, J. B., 3.
Placers, Alaska.—Capps, S. R., 1 & 2; Henshaw, F. F., 4; Maddren, A. G.; Moffit, F. H.; Prindle, L. M.
Placodermi.—Mansuy, H., 4.
Placodine.—Rosati, A.
Placophyllia.—Speyer, C.
Placosmilia.—Felix, J.
Placunopsis.—Krumbeck, L.
Plagioclase.—Hradil, G.; Ledoux, A.; Michel, H., 8.
Plagioclaseite.—Veen, A. L. W. E. van der.
Plagioglypta.—Boutwell, J. M.
Plagiosternum.—Fraas, E.
Plagiostoma.—Krumbeck, L.
Plains, Illinois.—Trowbridge, A. C., 2.
Plan-la-Tour (Var).—Lévy, A. M., 6.
Plane-table mapping.—Woodruff, E. G.
Planetismal hypothesis.—Keyes, C. R., 2.
Planolites.—Mansuy, H., 4.
Planorbis.—Cossmann, A. E. M., 2; Fœrster, B.
Planorbis multiformis.—Hickling, G.
Planorbulina larvata.—Guppy, R. J. L.
Plantæ, Carboniferous.—Arber, E. A. N., 1 & 2; Deltenre, H.; Goode, R. H.; Gordon, W. T., 1 & 2; Gothan, W., 2 & 3; Huth, W., 1–4; Jongmans, W. J., 2; Kindle, E. M., 2; Kubart, B.; Nathorst, A. G., 2; Stopes, M. C. C.; Thomas, H. Hamshaw; White, D., 1, 3, & 4.
——, Cretaceous.—Berry, E. W., 2; Fritel, P. H.; Halle, T. G., 3; Hollick, A.; Holden, R.; Knowlton, F. H., 4; Lee, W. T.; Stopes, M. C. C., 6; Thomson, R. B.
——, Devonian.—Derby, O. A.; Gortani, M., 2; Johnson, T.; Steinmann, J. H. C. G. G.
——, Eocene.—Knowlton, F. H.
——, Jurassic.—Bancroft, N.; Berry, E. W., 2; Dun, W. S.; Halle, T. G., 1–3; Krasser, F.; Krishtofovich, A.; Nathorst, A. G., 9; Seward, A. C., 1–3 & 6; Thomas, H. Hamshaw, 2–5; Thomson, R. B.; Zeiller, R.
——, Karroo Series.—Bancroft, N., 2.
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——, Mesozoic.—Arber, E. A. N., 3; Nathorst, A. G., 8.
——, Miocene.—Chapman, F., 3.
——, Oligocene.—Fœrster, B.
——, Ordovician.—Reed, F. R. C.
——, Palæozoic.—Weiss, F. E.
——, Permian.—Zobel, A.
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——, Pliocene.—Depape, G.
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——, Triassic.—Hœrich, O.; Thomson, R. B.; Cayeux, L.
——, Wealden.—Seward, A. C., 4 & 5; Zobel, A.

Plantæ, as evidence of geological climate.—Nathorst, A. G.
——, bibliography of fossil.—Jongmans, W. J.
——. *See also* Algæ, Flora, & Palæobotany.
Plant-remains, fossilization of.—Reis, O. M.
Plastic clay, Seine-et-Oise.—Courty, G.
Plateosaurus.—Jækel, O., 5.
Platinum, British Columbia.—Bailey, F.; Camsell, C., 3; *see also* BRITISH COLUMBIA, Bur. Mines.
Platinum, Carolina (N.).—Heyl, P. R.
——, Mongolia.—Hautpick, E. de, 4.
——, Ural Mts.—Duparc, L., 2.
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Plectrocnemia.—Ulmer, G.
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—— glaciation, significance of.—Manson, M.
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Plesiospatangus.—Fourtau, R., 2.
Plessur Mts. (Grisons).—Spitz, A.,
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Pleurosmilia.—Speyer, C.
Pleurostoma.—Scupin, H.
Pleurotoma. — Bajarunass, M. W.; Boussac, J.; Brown, A. P.; Cossmann, A. E. M., 2; Dainelli, G.; Fœrster, B.; Harder, P.; Maury, C. J.; Schaffer, F. X.; Shvetz, F. P.
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Pliauchenia.—Merriam, J. C., 5.
Plicatocrinidæ.—Clark, A. H.
Plicatula.—Bœhm, G.; Brydone, R. M.; Maury, C. J.; Orbigny, A. D. d'; Scupin, H.; Vincent, E.
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——, Argentina.—Carles, E. de.
——, Belgium.—Leriche, M., 8.
——, England.—Bell, A.
——, France.—Durand, A.
——, Germany. — Jentzsch, C. A., 8; Kinkelin, F., 2; Menzel, H., 4.
——, Greece.—Depéret, C., 2.
——, Hungary.—Horusitzky, H.
——, Iceland.—Pjeturss, H.
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Pliopithecus.—Wegner, R. N.
Pliosaurus.—Linder, H.; Andrews, C. W., 3.
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Plumbojarosite.—Butler, B. S., 1 & 2.
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Podocnemis.—Dollo, L.; Pacheco, J. A. d'A.
Podolia (Russia).—Tarasenko, V. E.
Podolite.—Chirvinskii, V., 2; Rogers, A. F., 5.
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—— ——, solifluction in.—Sapper, K., 2.
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Polita.—Germain, L.
Polmont (Stirling).—Gregory, J. W., 3.
Poltava (Russia).—Chirvinskii, P. N.

Polybasite.—Ungemach, H.
Polygnathus.—Kindle, E. M., 4.
Polygyina.—Hohenstein, V.
Polymorphina.—Bagg, R. M.; Fœrster, B.; Schmidle, W.
Polymorphites.—Pia, J. von.
Polyochera.—Petrunkevich, A.
Polyplacophora.—Robson, G. C.
Polypora.—Mansuy, H., 1 & 4; Ulrich, E. O., 3.
Polystomella.—Bagg, R. M.; Chapman, F., 3.
Polytrema.—Orbigny, A. D. d'.
Polyzoa, Carboniferous.—Mansuy, H., 1 & 4.
——, Cretaceous. — Brydone, R. M., 3; Scupin, H.; Wegner, R. N.
——, Devonian.—Ulrich, E. O., 3 & 4.
——, Jurassic. — Orbigny, A. D., d'; Volz, W.; Wolfer, O.
——, Ordovician.—Reed, F. R. C.
——, Permian.—Mansuy, H., 1 & 4.
——, Silurian.—Reed, F. R. C.
——, Tertiary.—Canu, P.; Chapman, F., 3; Maplestone, C. M.
Polyzoan reefs, Zechstein. — Ruebenstrunk, —.
Pomerania (Germany). — Friederichsen, M.; Gagel, C., 5; Jækel, O.; Jentzsch, C. A., 1 & 2; Menzel, H., 2.
Ponca City (Oklahoma).—Ohern, D. W., 4.
Poncin (Ain).—Mayet, L., 3.
Ponder's End (Middlesex).—Warren, S. H., 3.
Pontarlier (Doubs).—Collot, L., 2.
Pontiac County (Quebec). — Wilson, M. E.
Pontocypris.—Méhes, G.; Ulrich, E. O., 3.
Poprad R. (Hungary).—Limanowski, M., 2.
Porcellus.—Mansuy, H., 4.
Porcupine district (Ontario).—Burrows, A. G.; Hove, R. E.
Porifera, Cretaceous.—Brydone, R. M.; Pia, J. von; Rauff, H.; Scupin, H.
——, Devonian.—Swartz, C. K., 2.
——, Jurassic.—Orbigny, A. D. d'.
——, Triassic.—Hohenstein, V.
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Porites.—Oppenheim, P., 4.
Poromya.—Harder, P.
Porosphæra.—Brydone, R. M.
Porphyrite, Albania.—Nopcsa, F.
——, Amur.—Khlaponin, A., 2.
——, Magellan Peninsula. — *See* 'BELGICA' Expéd.
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——, Ural Mts.—Duparc, L., 3.
——, Venetia.—Billows, E.
——, Western Australia.—Simpson, E. S.; Thomson, J. A.
Porphyritic rocks, quartz-crystals in.—Fersmann, A. E.
Porphyroid, Hungary.—Rozlozsnik, P.
Porphyroid, Riesengebirge.—Berg, G.
Porphyry, Aargau.—Sœllner, J., 3.
——, Hesse.—Schopp, H.
——, Inverness-shire.—Barrow, G., 3.
——, Massachusetts.—Warren, C. H.
——, South Australia.—Jack, R. L.
——, Utah.—Boutwell, J. M.
——, Western Australia. — Blatchford, T.; Thomson, J. A.
Porpoceras.—Buckman, S. S., 2.
Port Arthur (Ontario).—Parsons, A. L., 2; Uglow, W. L.
Porta (Hanover).—Lœwe, F.
Portezuelo del Viento (Chile).—Vogel, M.
Portheus.—Woodward, A. S., 2.
Porthluney-Dodman section, Cornwall.—Green, U.
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Portlandia. — Björlykke, K. O., 3; Harder, P.
Portlandian, England.—Salfeld, H.
——, Hanover.—Lœwe, F.; Œrtel, W.
Portoscuso (Sardinia).—Pullé, G.
Portugal.—Malaise, C.; Preiswerk, H., 2; Segaud, —.
——, coal-resources of.—*See* PORTUGAL, Ministerio do Fomento.
——, 1775 earthquake of.—Gentil, L., 3.
Portuguese East Africa.—Gothan, W.
Portuguese Zambesia.—Wagner, P. A.
Posen (Poland).—Behr, J.; Schütze, H.; Wolff, W.
Posidonia.—Frech, F., 4.; Kittl, E. A. L.; Koken, E.
Posidonomya.—Macnair, P.; Pruvost, P., 4; Ravn, J. P. J.; Vadász, M. E.
Post-Pliocene.—*See* Quaternary.
Postprolobites.—Wedekind, R.
Potamides.—Vincent, E.; Vogl, V.
Potamyia.—Ulmer, G.
Potash, India.—Hayden, H. H., 2.
——, U.S.A.—Lindgren, W.
Potash in felspathic rocks, effect of agriculture on.—André, G.
Potassium, dehydration of oxalate of.—Gaudefroy, C.
Potassium sulphate, chemistry & crystallography of.—Fedorow, E. von.
Poteriocrinus. — Lœwe, H.; Mansuy, H.
Pot-holes, Bavaria.—Rothpletz, A., 3.
——, New York.—Barker, E. E.
Pottery-clay, Victoria.—Howitt, A. M.
Prades (Pyrénées Orientales).—Depéret, C.; Mengel, O., 2.
Præconia.—Hofmann, K.; Rollier, L., 2.
Pratt Co. (Kansas).—Merrill, G. P., 4.
Pre-Cambrian, America (North).—Willis, B.; Wilson, M. E., 4.
——, Bardsey I.—Matley, C. A.
——, China.—Blackwelder, E.
——, Dakota.—Duncan, G. S.; Paige, S.
——, Fenno-Scandia.—Sederholm, J. J., 3.
——, Finland.—Sederholm, J. J., 6.
——, New York.—Kemp, J. F., 2.

Pre-Cambrian, Northern Territory of Australia.—Woolnough, W. G.
——, Ontario.—Burrows, A. G.; Coleman, A. P.; Knight, C. W.; Parks, W. A., 4; Parsons, A. L.; Uglow, W. L.
——, Rocky Mountains.—Allan, J. A.
——, Sweden.—Sobral, J. M.
——, classification of.—Miller, W. G.
——, fauna of—Sollas, W. J.
——, life of.—Sederholm, J. J.
——, metamorphism in.—Adams, F. D.
Pre-Cambrian ocean, chemical condition of.—Daly, R. A.
——, the term.—Leith, C. K.
——. *See also* Archæan, *&c.*
Prehnite.—Amthor, R.; Azéma, L., 2; Himmelbauer, A., 3.
Preolenna Coalfield (Tasmania).—Hills, L.
Premorski district (Siberia).—Malyavkin, S. F., 3.
Pressure, effects of.—Bœke, H. E., 2; Johnston, J., 2; Wagner, G., 2.
Priabonian.—Bertrand, L., 3.
Primitia.—Leriche, M.; Reed, F. R. C.
—— & *Primitiella.*—Ulrich, E. O., 3.
Prince Edward I.—Gray, F. W.; Johnson, D. W., 2; Young, G. A.
Prince Rupert (B.C.). — McConnell, R. G.
Prince William Sound (Alaska).—Martin, L.
Princeton (N.J.).—Hawkins, A. C.
Prionastræa.—Orbigny, A. D. d'.
Prionolobus.—Mansuy, H., 4.
Pristiphoca.—Stromer, E., 2.
Prjevalsk (Turkestan).—Mushketov, D. I.
Probeloceras.—Clarke, J. M., 7.
Proboloides.—Clarke, J. M., 3 & 5.
Proboscidea. — Pontier, G.; Stefanescu, S.
Proboscina.—Wolfer, O.
Procobus.—Khomenko, I.
Productella.—Clarke, J. M., 7; Gortani, M., 2; Mansuy, H., 1 & 4; Prosser, C. S., 4; Stauffer, C. R.; Tolmachev, I. P.
Productus.—Asselbergs, E.; Boutwell, J. M.; Cramer, R.; Lœwe, H.; Mansuy, H., 1 & 2; Mark, C. G.; Stauffer, C. R.; Yakovlev, N.
Productus Limestones, Indo-China. — Mansuy, H., 3.
Proetus.—Clarke, J. M., 5; Mansuy, H., 4; Gortani, M., 2; Ohern, D. W., 5; Postlethwaite, J.; Richter, R.; Stauffer C. R.
'Progonozoic' periods. — Sederholm, J. J.
Prohemerobius.—Navas, R. P. L.
Prolaria.—Mansuy, H.
Prolobites.—Wedekind, R.
Prolucina.—Pritchard, G. B.
Promathildia. — Cossmann, A. E. M.; Kittl, E. A. L., 2; Koken, E.
Propappus.—Haughton, S. H., 1 & 2.
Propora.—Reed, F. R. C.
Propseudopus.—Wegner, R. N.
Propylite.—Simpson, E. S.
Propylitization.—Lazarevic, M.
Proscala.—Cossmann, A. E. M.
Proschizophoria.—Leriche, M.
Proscorpius.—Clarke, J. M., 6.
Prosopiscus.—Reed, F. R. C.
Prospect Hill (N.S.W.).—Jevons, H. S., 1 & 2.
Prospondylus.—Frech, F., 5.
Prosthennops.—Merriam, J. C., 5.
Protæon, fauna of.—Sollas, W. J.
Proteites.—Renz, C., 7.
Proterochersis.—Fraas, E., 5.
Prothyris. — Clarke, J. M., 3 & 5; Prosser, C. S., 4.
Protocardia.—Krumbeck, L.; Mansuy, H., 2; Maury, C. J.; Rollier, L., 2; Scupin, H.
Protogrammoceras, gen. nov. — Spath, L. F.
Protolimulus.—Clarke, J. M., 6.
Protoma. — Cossmann, A. E. M.; Schaffer, F. X.
Protomathildia.—Krumbeck, L.
Protophrynus, gen. nov., *Protopilio*, & *Protosolpuga.*—Petrunkevich, A.
Protorcula.—Kittl, E. A. L., 2; Krumbeck, L.
Protorthis.—Perkins, G. H.; Walcott, C. D.
Protoseris.—Speyer, C.
Protrachyceras.—Frech, F., 2; Mansuy, H., 2; Renz, C., 7.
Protractor, stereographic.—Smith, G. F. H., 3.
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Proustite. — Dürrfeld, V.; Ungemach, H.
Provence (France).—Cotte, C.; Kilian, C. C. W., 5; Repelin, J., 3.
Prussia, coalfields of. — Bœker, H. E., 4.
——, lignite of.—Bœker, H. E., 5.
—— (East). — Brückmann, R., 1 & 2; Fleszar, A.; Meyer, E.
—— (West). — Jentzsch, C. A., 2 & 3.
Psalidocrinus.—Remeš, M., 2.
Psammechinus. — Lambert, J., 2; Schaffer, F. X.
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Pseudomonotis.—Bittner, A., 2; Frech, F., 3 & 5; Krumbeck, L.; Mansuy, 1 & 4; Sokolov, D. N., 3; Vittenburg, P. V.
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Pteroplax.—Watson, D. M. S., 7.
Pteropoda, Devonian.—Stauffer, C. R.
——, Eocene.—Cossmann, A. E. M., 2.
Pterotheca & *Pterygometropus.*—Branson, E. B.
Pterygotus.—Clarke, J. M., 6.
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Ptilophyllum. — Bancroft, N.; Halle, T. G., 3; Thomas, H. Hamshaw, 2.
Ptilopora.—Reed, F. R. C.
Ptisanula, gen. nov.—Odhner, N. H.
Ptomatis.—Clarke, J. M., 3 & 5.
Ptychites.—Frech, F., 2; Renz, C., 7; Tommasi, A.
Ptychocerithium.—Dainelli, G.
Ptychomya.—Steinmann, J. H. C. G. G., 5.
Ptychoparia.—Cobbold, E. S., 2; Mansuy, H., 4.
Ptychopotamides.—Schaffer, F. X.
Ptychopteria.—Lœwe, H.
Ptychostoma.—Koken, E.
Puget Sound (Alaska).—Bretz, J. H.
Pugnax.—Clarke, J. M., 7; Mansuy, H., 4; Mark, C. G.; Yakovlev, N.
Pulcheliidæ.—Douvillé, H., 2.
Pullenia.—Fœrster, B.
Pulvinulina.—Bagg, R. M.; Chapman, F., 3; Fœrster, B.
Pumice, Hesse.—Schottler, W.
——, Krakatoa.—Chelussi, I.
——, Rhenish Prussia.—Martius, S.
Punjab (India).—Hayden, H. H., 2.
Punta Arenas (Patagonia).—Felsch, J., 1 & 3; *see also* 'BELGICA' Expéd.
Puntaloni (Dalmatia).—Waagen, L., 2.
Pupa.—Cossmann, A. E. M., 2.
Purbeckian, Hanover.—Ertel, W.
Purcell Range (B.C.).—Daly, R. A., 3.
Purpurina.—Fischer, E., 2; Krumbeck, L.; Orbigny, A. D. d'.
Purpuroidea.—Frech, F., 5.
Puster Valley (Tyrol).—Furlani, M.
Putnam (New Mexico).—Foster, W.
Puy-de-Dôme (Auvergne).—Bruyant, C.; Glangeaud, P., 1, 3, & 7; Gonnard, F.; Mouret, G.
Puy-de-la-Tâche (Puy-de-Dôme). — Gonnard, F.
Pycinaster.—Spencer, W. K.
Pycnodonta.—Boussac, J.
Pygaster.—Hawkins, H. L., 3.
Pygorhynchus.—Fourtau, R., 2.
Pyramidula.—Germain, L.
Pyrargyrite.—Ungemach, H.
Pyrenees (French).—Bertrand, L.; Croisiers de Lacvivier, C.; Dalloni, M.; Doncieux, L., 5; Mengel, O., 2; Roussel, J.; Depéret, C.
—— (Spanish).—Kostka, R.
——, transportation by water in.—Müntz, A., 2.
Pyrina.—Dainelli, G., 2; Gillitzer, G.
Pyrite, Canada.—Wilson, A. W. G.
——, Dobrudsha.—Motas, C.
——, Harz.—Stutzer, O., 4.
——, Hungary.—Zimányi, K.
——, Japan.—Iwasaki, E.
——, Maddalena I.—Lovisato, D., 2.
——, Norway.—Rekstad, J., 2.
——, Serbia.—Lazarevic, M., 2; Wendeborn, B. A.
——, Spain.—Scotti, H.; Wetzig, B.
——, Tuscany.—Toso, P.
——, crystals of.—Smolar, G., 1 & 2.
——, vadose synthesis of. — Whitman, A. R.
Pyrite-marls, Switzerland.—Rollier, L.
Pyritization.—Lazarevic, M.
Pyromorphite.—Ungemach, H.
Pyroxene.—Doht, R.
——, in meteorites.—Michel, H., 3.
Pyroxmangite.—Ford, W. E., 2.
Pyrrhotite, Canada.—Wilson, A. W. G.
——, Montana.—Knopf, A., 4.
——, Wisconsin.—Bagg, R. M., 2.
Pyrula.—Brown, A. P.; Schaffer, F. X.

Quantitative classification.—Cross, W.; Lincoln, F. C.; Sobral, J. M.
Quartz.—Abraham, A.; Berwerth, F.; Bornhardt, W.; Buttgenbach, H., 3; Fersmann, A., 2; Fersmann, A. E.; Hutchins, C. C.; Laubmann, H.; Ledoux, A., 2; Reoch, J. W.; Wetzel, W., 1 & 2; Wright, F. E., 5; Zyndel, F., 2.
—— & felspar, poikilitic intergrowths of. —Geijer, P.

Quartz. — *See also* Diorite, Porphyry, *&c.*
Quartz-veins.—Beyschlag, F. H. A., 4.
Quartzine.—Wetzel, W., 2.
Quartzite, Belgium. — Abraham, A.; Doyen, A., 1 & 2.
——, California.—Harder, E. C.
——, Elba.—Manasse, E.
——, Luxemburg.—Leidhold, C.
——, Norway.—Oxaal, J.
——, Quebec.—Dresser, J. A.
——, Riesengebirge.—Berg, G.
——, Scotland.—Barrow, G., 3.
——, Westerwald.—Endell, K., 2.
Quaternary, Argentina.—Carles, E. de.
——, Belgium.—Cumont, G.; Fraipont, C., 2 & 6; Rutot, A.
——, Bohemia.—Hibsch, J. E., 2.
——, Calabria.—Stefani, C. de.
——, Corsica.—Caziot, E.
——, Denmark. — Linstow, O. von; Ussing, N. V.
——, Finland.—Mäkinen, E.
——, France.—Blayac, J.; Caziot, E., 2; Doncieux, L., 6; Martin, D., 2; Welsch, J.
——, Germany. — Fleszar, A.; Geyer, D.; Linstow, O. von.
——, Gotland.—Munthe, H., 3.
——, Greece.—Depéret, C., 2; Négris, P.
——, Holland.—Molengraaff, G. A. F.
——, Hungary.—Horusitzky, H.; Kormos, T., 2 & 3.
——, Iceland.—Pjeturss, H.
——, Leicestershire.—Horwood, A. R., 3.
——, Mauritania.—Chudeau, R.
——, Mexico.—Brown, B., 3; Wittich, E., 3.
——, New Zealand.—Cotton, C. A.
——, Norway.—Björlykke, K. O., 3.
——, Piedmont.—Sacco, F., 4.
——, Poland.—Fleszar, A.
——, Rhine Valley & Rhône Valley.—Germain, L.
——, Scotland.—Linstow, O. von.
——, Sicily.—Wepfer, E.
——, Spitsbergen.—Hœgbom, B., 2.
——, Sweden.—Arctowski, H.; Geer, G. de, 4 & 5; Linstow, O. von; Nathorst, A. G., 4.
——, Turkestan.—Machatschek, F.
——, Warwickshire.—Auden, G. A.
——, Yunnan.—Deprat, J., 4.
Quebec (Canada).—Adams, F. D., 3 & 4; Bell, W. A.; Clarke, J. M., 2; Dresser, J. A.; Fœrster, A. F.; Goldthwait, J. W., 2; Harvie, R.; Mackenzie, G. C.; Raymond, P. E., 1 & 2; Wilson, M. E., 1 & 3; Young, G. A.
Quebecia.—Walcott, C. D.
Queen Charlotte Is.—Clapp, C. H., 2.
Queensland.—Ball, L. C.; Dunstan, B.
Quenast (Brabant).—Ledoux, A., 1 & 3; Leriche, M., 5.
Quenstedticeras—Douvillé, R.; Ravn, J. P. J.; Sokolov, D. N., 1 & 5.
Querum (Brunswick).—Riedel, A., 2.
Queyras (Hautes-Alpes). — Martin, D., 2.
Quina, La (Charente).—Martin, H.
Quincy (Massachusetts). — Warren, C. H.
Quishm I. (Persian Gulf).—Pilgrim, G. E.
Quixadá (Brazil).—Branner, J. C., 3.
Quizzohota (Kaffraria).—Schwarz, E. H. L., 4.

Raasay (Hebrides).—Strahan, A., 8.
Radicipora.—Wolfer, O.
Radioactive elements.—Brown, F. C.; Craig, G.
—— minerals, Madagascar. — Duparc, L., 5 & 6.
—— ——, S. Australia.—Ward, L. K., 3.
—— water, Black Forest. — Henglein, M.
—— ——, Colorado.—Shedd, J. C.
—— ——, Piedmont.—Ceruti, G.
Radioactivity, Loèche-les-Bains. — Lugeon, M.
Radiolaria, Jurassic.—Squinabol, S.
Radiolarian rocks, New South Wales.—Benson, W. N.
Radiolarite.—Cornelius, H. P.
Radium.—Krusch, P.; Soddy, F.; Symons, B., 2.
——, U.S.A.—Parsons, C. L.
——, age of the earth &.—Fermor, L. L., 3; Holmes, A., 1 & 2; Schiller, F. C. S.
——, evolution of earth's crust &. — Oldham, R. D., 2.
Radium-content of rocks.—Meyer, G.
Radix.—Germain, L.
Radula.—Krumbeck, L.
Raesfeld (Westphalia).—Krusch, P., 3.
Rafinesquina.—Reed, F. R. C.
Raibl (Carinthia).—Kraus, M.
Raibl Beds, Hungary.—Frech, F., 2.
Raised beaches, Devon.—Dewey, H.; Hunt, A. R., 2 & 6; Jukes-Browne, A. J., 7.
—— ——, age of.—Lamplugh, G. W.
Rajmahal Hills (Bengal).—Bancroft, N.
Rakaia R. (N.Z.).—Speight, R., 3.
Ralstonite.—Bœggild, O. B., 2.
Rammelsberg (Harz).—Baumgärtel, B., 2; Stutzer, O., 4; Wolff, —.
Rampart district (Alaska).—Eakin, H. M.
Rancho la Brea (California).—Merriam, J. C., 2; Stoner, R. C.
Raniganj Coalfield (India).—Ball, V.
Ranina.—Maury, C. J.
Raphistoma.—Reed, F. R. C.
Raphitoma.—Cossmann, A. E. M., 2; Harder, P.
Rare earths.—James C.; Metzger, F. J.; Zambonini, F.
Rasenia, gen. nov.—Salfeld, H.
Rastrites.—Postlethwaite, J.

Raton Mesa district (Colorado & New Mexico).—Knowlton, F. H., 1 & 4.
Raub Series.—Scrivenor, J. B.
Rauracian.—Œrtel, W., 2.
Rayleigh (Essex).—Hinton, M. A. C.; Reader, T. W.
Reaction-rims, Adirondack gabbro.—Miller, W. J.
Recurrent faunas, New York Devonian.—Williams, H. S., 3.
Red Barren Measures, Glasgow.—Smellie, W. R.
Red beds, Kansas.—Keyes, C. R.
——, origin of.—Hemming, K. L.
——, petroleum in.—Gould, C. N.
Red clay.—Baren, J. van.
Red Crag.—Stopes, M. C. C., 4; Sturge, W. A., 2.
Redcliff Gully (N.Z.).—Speight, R., 3.
Red earth, Carso.—Chaix, E., 5.
—— ——, Tripoli.—Vinassa de Regny, P. E., 2.
Red Sea.—Couyat, J., 3; Fourtau, R., 1 & 3.
Redeyif (Tunisia).—Roux, H.
Redlichella.—Walcott, C. D.
Redlichia.—Mansuy, H., 4.
Redon, Mont (Aude).—Depéret, C., 5.
Refraction, double.—Berek, M., 3.
Reichenbach, R. L. von, *Obit.—See* Berwerth, F., 3.
Reichenstein (Silesia).—Beyschlag, F. H. A., 4.
Reineckeia.—Douvillé, R., 2; Spath, L. F.
Reinhardswald (Hesse).—Kœnen, A. von.
Reiter Alps (Bavaria).—Gillitzer, G.
Rèje (Ural Mts.).—Chirvinskii, V.
Remopleurides.—Marr, J. E.
Renaultia.—Gothan, W., 2.
Renfrewshire (Scotland).—Houston, R. S.; Strahan, A.
Rensenspitze (Tyrol).—Hradil, G.
Rensselæria.—Clarke, J. M., 3; Schuchert, C., 4.
Replacement.—Bastin, E. S.; Stevens, B.
Reptilia, Cretaceous.—Borisyak, A. A.; Brown, B., 1 & 2; Dombrovski, B.; Gilmore, C. W.; Lambe, L. M., 2; Osborn, H. F., 1 & 2; Pacheco, J. A. d'A.; Schwarz, E. H. L., 3; Simionescu, I., 4; Williston, S. W., 6.
——, Eocene.—Dollo, L.
——, Jurassic.—Andrews, C. W., 3; Broili, F., 2; Fraas, E., 4; Koken, E., 2; Kremmling, W.; Linder, H.; Stromer, E.
——, Karroo.—Broom, R., 1–7 & 10–14; Haughton, S. H., 2; Sollas, I. B. J., 2; Watson, D. M. S., 1–5.
——, Miocene.—Stefano, G. de, 2.
——, Oligocene.—Lambe, L. M.
——, Permian.—Broom, R., 9; Finney, M.; Haughton, S. H.; Huene, F. von; Reis, O. M., 2; Sollas, I. B. J., 3; Williston, S. W., 1, 2, 4, & 5.
Reptilia, Permo-Carboniferous.—Williston, S. W.
——, Purbeck.—Andrews, C. W.
——, Quaternary.—Campana, D. del, 3.
——, Tertiary.—Lee, W. T., 2; Teppner, W.; Wegner, R. N.
——, Triassic.—Fraas, E., 5; Huene, F. von, 2; Jækel, O., 5; Mehl, M. G.; Simionescu, I.
——, Wealden.—Hooley, R. W.
——, atmospheric pressure & flying.—Harlé, E.
——, mandible of.—Williston, S. W., 3.
——. *See also* Trails, animal.
Retepora.—Canu, F.; Fœrster, B.
Rethélois (France).—Douvillé, R., 4.
Reticularia.—Lœwe, H.; Prosser, C. S.; Renz, C., 7; Schuchert, C., 4; Stauffer, C. R.; Yakovlev, N.
Reticulipora.—Canu, F.
Retispinopora, gen. nov.—Brydone, R. M.
Retzia.—Bittner, A.; Frech, F., 4; Mansuy, H., 4.
Reutte (Tyrol).—Ampferer, O.
Revinian, Belgium.—Abraham, A.; Anten, J.
Réz Mts. (Hungary).—Roth von Telegd, L., 3.
Rezi (Hungary).—Böckh, J. von.
Rhabdoceras.—Ulmer, G.
Rhabdocidaris.—Dainelli, G., 2.
Rhacophyllites.—Frech, F., 9; Pia, J. von; Renz, C., 6; Toni, A. de.
Rhadinorhinus.—Riggs, E. S.
Rhætic, Hanover.—Lœwe, F.
——, Hesse.—Beetz, W.
——, Hungary.—Böckh, J. von; Frech, F., 5.
Rhätikon.—Mylius, H.
Rhamphorhynchus.—Kremmling, W.; Stromer, E.
Rharbi (Morocco).—Brives, A., 2.
Rhenish Bavaria.—Bœhm, J., 2.
Rhenish Prussia.—Bärtling, R., 3; Dohm, S.; Brauns, R.; Brockmeier, H.; Hopmann, P. M.; Klein, W. C.; Krusch, P., 5; Kukuk, P.; Leidhold, C., 3; Martius, S.; Meyer, H. L. F., 3; Schürmann, E.; Stamm, K.; Tilmann, N., 2 & 3; Uhlig, J.; Wedekind, R.; Wildschrey, E.
——, Westphalia.—Gagel, C., 5.
Rhetinangium, gen. nov.—Gordon, W. T.
Rhexoxylon, gen. nov.—Bancroft, N., 2.
Rhine R.—Horwitz, L.
Rhine Valley.—Bärtling, R.; Germain, L.; Van Werveke, L., 3 & 5.
Rhinidictya.—Reed, F. R. C.
Rhinoceros.—Deninger, K.; Florea, G.; Grossouvre, A. de, 3; Kormos, T., 5; Werner, R. N.
Rhinocerotidæ, Oligocene.—Roman, F.
Rhinopora.—Perkins, G. H.
Rhinoptera.—Jordan, D. S.

Rhipidocystis.—Bather, F. A., 4.
Rhipidogyra.—Speyer, C.
Rhipidomella.—Clarke, J. M., 7; Mark, C. G.; Prosser, C. S., 4; Schuchert, C., 4; Stauffer, C. R.; Tolmachev, I. P.; Williams, H. S., 3.
Rhizocorallium.—Hohenstein, V.
Rhodea.—Gothan, W., 2.
Rhode I. (U.S.A.).—Haynes, W. P.
Rhodes I.—Fallot, P.
Rhodesia.—Maufe, H. B., 2; Thompson, A. R.; Zealley, A. E. V.
Rhodonite.—Ungemach, H., 2.
Rhön Mts. (Germany). — Meyer, H. L. F.
Rhône (France). — Assada, I.; Collot, L.; Doncieux, L., 6; Gignoux, M.; Lévy, A. M.; Rias, A. de, 2.
Rhône R. (France).—Depéret, C., 3.
—— R. basin (Switzerland).—Lambert, J., 2.
Rhône Valley.—Germain, L.
Rhönite.—Wurm, F.
Rhönite-basalt.—Michel, H., 6.
Rhopalonaria.—Ulrich, E. O., 3 & 4.
Rhopalastrum.—Squinabol, S.
Rhyacophila.—Ulmer, G.
Rhynchonella.—Asselbergs, E., 2; Bittner, A.; Cramer, R.; Frech, F., 4 & 5; Gillitzer, G.; Gortani, M., 2; Leriche, M.; Lœwe, H.; Mansuy, H., 1, 2, & 4; Orbigny, A. D. d'; Richardson, L., 3; Schuchert, C., 4; Scupin, H.
Rhynchopora.—Tolmachev, I. P.
Rhynchospira.—Schuchert, C., 4.
Rhynchotrema.—Reed, F. R. C.
Rhynchotreta.—Schuchert, C., 4.
Rhynoclavis.—Dainelli, G.
Rhyolite, Madagascar.—Lacroix, A. F. A., 7.
——, New Zealand.—Bell, J. M.
——, Oki Is.—Kôzu, S.
——, Sardinia.—Washington, H. S.
Richmond formation, Canada.—Foerste, A. F.
RICHTER, P. B., palæobotanical collection of.—Nathorst, A. G., 7.
Ries (Swabia).—Branca, W.; Hermann, R.; Jooss, C. H., 2; Löffler, R.; Reck, H.
Rieseberg (Brunswick).—Speyer, C., 2.
Riesengebirge (Silesia).—Berg, G., 1 & 3.
Rieserferne (Tyrol). — Klebelsberg, R. von, 4.
Rill-channels.—Hudson, G. H.
'Rillensteine.'—Escher, B. G.; Kessler, P.
Rillyia.—Cossmann, A. E. M., 2.
Rimella. — Boussac, J.; Dainelli, G.; Maury, C. J.; Vincent, E.
Ringicula. — Brown, A. P.; Cossman, A. E. M., 2.
Ringsteadia, gen. nov.—Salfeld, H.
Rio Grande (Brazil).—*See* SÃO PAULO, Comm. geogr. & geol.
Rio Grande do Norte (Brazil).—Jenkins, O. P.
Rio Negro (Argentina).—Rovereto, G., 2.
Rioja Prov. (Argentina).—Reichert, F.
Ripple-marks.—Condit, D. D.; Tornau, F.
Rissoa.—Scupin, H.
RIVA-PALAZZI, G., *Obit.*—*See* Taramelli, T., 2.
River-capture, Algeria.—Joly, A., 3.
—— ——, Paris Basin.—Bochin, F.
River-channels, pre-Glacial.—Irving, A., 4.
River-erosion.—Musy, M.
—— -deposits, Bavaria.—Henkel, L.
—— -gravels, Marne.—Lemoine, P., 5.
River-systems, America (S.).—Haseman, J. D.
River-terraces, Loire.—Chaput, E.
—— ——, Rhône.—Depéret, C., 3.
River-valleys, Germany, development of. —Reck, H.
—— ——, Peterborough. — Irving, A., 2.
—— ——, submerged.—Deeley, R. M., 2.
River-water, composition of. — Smyth, C. H., *fil.*, 2.
Rivers, China.—Ward, F. K.
——, Suffolk.—Boswell, P. G. H.
——, development of.—Cadell, H. M.
——, levelling action of.—Keyes, C. R., 4.
——. *See also* Surface-water.
Riversdale-Union Beds, Nova Scotia.—Hyde, J. E.; Young, G. A.
Robinson Co. (South Australia). — Jack, R. L.
Robson Peak (B.C.). — Walcott, C. D., 3.
Roccastrada (Tuscany).—Trabucco, G.
Rochdalia.—Woodward, H., 2.
Roche-Rousse (Hautes-Alpes).—Plat, —.
Rochelle, La (Charente Inf.). — Welsch, J.
Rocks, chemical composition of. — Smyth, C. H., *fil.*, 1 & 2.
—— ——, variation in mechanically deformed.—Buckland, H.
——, classification of.—Winchell, A. N.
—— —— & nomenclature of. — Abendanon, E. C., 2.
——, cleavage of.—Lohest, M., 3.
——, composition of.—Lincoln, F. C., 2.
——, conductivity of.—Königsberger, J., 3.
——, consolidation of.—Lohest, M., 2.
——, effect of pressure on.—Bœke, H. E., 2; Johnston, J., 2; Paulcke, W.; Wagner, G., 2.
——, experiments on flow of.—Adams, F. D., 2.
——, fusion-temperature of. — Sosman, R. B.
——, graphical representation in analysis of.—Berg, G., 4.
——, heat-conductivity of. — Königsberger, J., 7.

Rocks, melting-points of.—Endell, K., 3.
——, plasticity of.—Königsberger, J., 10.
——, quantitative classification of. — Cross, W.; Lincoln, F. C.
——, structure & constitution of crystalline.—Becke, F. J. K., 4.
——, tropical weathering of. — Arsandaux, H., 2.
——, wearing-away of.—Evans, J. W., 8.
——. *See also* Igneous rocks, Magma, Petrography, *&* Sedimentary rocks.
Rock-analysis.—Krishnayya, H. V.
—— ——, mechanical. — Goldschmidt, V.
Rock-boring shells.—Barrow, A. L.
Rock-salt. — Andrée, K., 1 & 2; Görgey, R., 2; Naumann, M., 2; Ritzel, A.
Rock-salt crystal, deformed. — Lachmann, R.
—— ——. *See also* Salt.
Rock-sections, apparatus for preparing. —Smith, G. F. H.
Rocky Mts. (Canada).—Allan, J. A.
Rodach (Bavaria).—Henkel, L.
Rodderberg (Rhenish Prussia). — Tilmann, N., 3.
Rœmerite.—Scharizer, R.
Roggen (Solothurn).—Mühlberg, F., 2.
Rome (Italy).—Angelis d'Ossat, G. de; Cerulli-Irelli, S.
Romeral (Murcia).—Rubio y Muñoz, C.
Ronquières (Belgium).—Leriche, M., 4.
Ronzotherium.—Roman, F.
Rooiberg (Transvaal).—Kynaston, H.; McDonald, D. P.
Rope Haven (Cornwall). — Collins, J. H., 2.
Röragen (Norway). — Goldschmidt, V. M.
Roseberry Topping (Yorks). — Thomas, H. Hamshaw, 3.
Rosières (Cher).—Grossouvre, A. de, 3.
Rossdorf (Hesse).—Klemm, G.
Rossetto (Elba).—Aloisi, P., 2.
Ross-shire.—Peach, B. N., 3.
Rostellaria. — Boussac, J.; Lecointre, G.; Vincent, E.
Rotalia.—Fœrster, B.
Rothliegendes, Anatolia.—Frech, F., 9.
——, Bavaria.—Reis, O. M., 2.
——, Hesse.—Schopp, H.
——, Silesian coalfield.—Gothan, W., 3.
Röti Dolomite, etching of. — Escher, B. G.
Röttl Schloss (Switzerland).—Buxtorf, A., 3.
Rottorf (Hanover).—Harbort, E., 7.
Roullier Collection, types in the. — Sokolov, D. N., 3.
Roxania.—Cossmann, A. E. M., 2.
Royan (Charente).—Bordage, E.
Royvaux (Luxemburg).—Duvigneaud, J.
Rubidium.—Duffour, A., 2.
Ruby.—Harger, H. S.
Ruddington Boring.—Gibson, W.
Rudistæ.—Douvillé, H., 1, 5, & 6.
Rudistes Beds, Gosau.—Lambert, J., 4.
Rügen (Baltic).—Keilhack, K.; Leidhold, C., 2.
Ruffordia.—Seward, A. C., 4.
Rumania. — Jonescu-Bujor, D.; Kern, J., 3; Mrazec, L.; Tănăsescu, I., 1 & 2; Vâlsau, G.; *see also* Dobrudsha.
Russia, bibliography of geology of. — Krishtofovich, N. I., 1 & 2.
——, coalfields of. — Chernychev, T.; Faas, A.
——, mining in 1912.—Hautpick, E. de, 5 & 6.
——, Permian reptilia of. — Broom, R., 9.
Rustella.—Walcott, C. D.
Rutile.—Buttgenbach, H., 5.
Ryfylke (Norway).—Reusch, H., 7.

St. Austell Bay (Cornwall).—Collins, J. H., 2.
St. Avre (Savoy).—Kilian, C. C. W., 6.
Ste. Baume (Var).—Haug, E., 4 & 5; Repelin, J., 3.
St. Brais (Berne).—Œrtel, W., 2.
Sta. Caterina (Sicily).—Platania, G., 4.
St. Claude (Jura).—Delebecque, A.
Santa Fé (Argentina).—Carles, E. de.
San Francisco district (Utah).—Butler, B. S.
St. George's Monastery (Crimea). — Popov, S. P.
St. Gothard (Switzerland).—Niggli, P.
St. Jean-de-Maurienne (Savoy).—Pussenot, C.
San Joaquin R. basin (California).—McGlashan, H. D., 2; Wood, B. D.
St. John (New Brunswick).—Young, G. A.
San José (California).—Templeton, E. C.
San Juan Prov. (Argentina).—Kühn, F.; Reichert, F.
St. Kreuz (Alsace).—Bücking, H., 2.
St. Lambert, Val (Belgium).—Fraipont, C., 3.
St. Laurent-des-Arbres (Gard). — Durand, A.
St. Lawrence, Gulf of.—Clarke, J. M.
—— R. basin (U.S.A.), surface-water.— Covert, C. C.
—— R. (Canada).—Dresser, J. A.; Mackenzie, G. C.; Spencer, J. W. W., 2.
St. Louis (Missouri).—Drushel, J. A.
Santa Lucia Mts. (California).—Davis, C. H.
St. Marcel d'Ardèche (France).—Depape, G.
St. Martin-sur-Ouanne (Yonne).—Jodot, P.
St. Michel (Vendée).—Villain, P.
San Nicolás (Mexico). — Wentworth, I. H.
St. Omer (Pas-de-Calais). — Gosselet, J. A. A., 2.

São Paulo (Brazil).—Gœldi, E. A; *see also* SÃO PAULO, Comm. geogr. & geol.
San Piero in Campo (Elba).—Achiardi, G. D'.
St. Symphorien (Hainault).—Cornet, J.
St. Thomas I.—Bauer, M.
San Valentino (Abruzzi).—Prever, P. L., 2.
Saale Valley (Thuringia). — Naumann, E.
Saare Coalfield.—Böker, H. E., 2.
Sabalites.—Fœrster, B.
Saccharite.—Beyschlag, F. H. A., 4.
Sacramento R. basin (California).— McGlashan, H. D., 4.
Safâga (Egypt).—Ball, J., 2.
Saffordia.—Reed, F. R. C.
Sagenites.—Krumbeck, L.
Sagenopteris.—Halle, T. G., 3; Seward, A. C., 2 & 4; Thomas, H. Hamshaw, 2.
Saghalien I.—Tikhonovich, N. N.
Sagittario (Abruzzi).—Zuffardi, P.
Sahara (Africa).—Chudeau, R., 1 & 2; Dalloni, M., 3; Dollfus, G. F.; Font y Sagué, N.; Stainier, X.
Sakalave (Madagascar).—Lacroix, A. F. A., 7.
Sak-Elga (Ural Mts.).—Kler, O.
Salève (Savoy).—Joukowsky, E.
Salic dykes, Sweden.—Sobral, J. M.
Saliferous beds, relationship to tectonics. —Deecke, W., 2.
Salisburya.—Depape, G.
Salix.—Björlykke, K. O., 3.
Salt.—Harbort, E., 4; Lachmann, R., 2; Van't Hoff, J. H.
——, Abyssinia.—Krause, C.
——, Alsace.—Görgey, R.; Harbort, E., 6; Van Werveke, L., 9; Wagner, W.
——, Baden. — Harbort, E., 6; Van Werveke, L., 9.
——, Bavaria.—Mayer, F.
——, Bukovina.—Niedzwiedzki, J.
——, Germany.—Harbort, E., 1, 2 & 5; Hess von Wichdorff, H.; Kirschmann, W.; Lachmann, R., 4; Neumann, M.; Schünemann, F.; Seidl, E.; Zimmermann, E., 2.
——, Mauritania.—Chudeau, R.
——, Oklahoma.—Snider, L. C.
——, Persia.—Stahl, A. F.
——, Persian Gulf.—Pilgrim, G. E.
——, Philippine Is.—*See* PHILIPPINE Is.
——, Rumania.—Tănăsescu, I., 2.
——, Tunis.—Pervinquière, L.
——, U.S.A.—Bentz, G.; Lindgren, W.
——, origin of.—Grabau, A. W., 4.
—— (desert), origin of.—Holland, Sir Thomas H.
Salt horsts, Germany.—Van Werveke, L., 7.
Salt, oceanic.—Uhlig, J., 2.
Salt solutions, formation of silicates, &c. —Schneiderhöhn, H.
Salt-springs, Germany (N.E.). — Jentzsch, C. A., 6.
——. *See also* Rock-salt.
Salta (Argentina).—Bonarelli, G.
Saltation.—Osborn, H. F., 6.
Saltenfiord (Norway).—Rekstad, J., 4.
Salterella.—Perkins, G. H.
Saltsjöbaden (Sweden).—Holmquist, P. J., 2.
Salvador (Central America). — Sapper, K.
Salzkammergut (Austria). — Doht, R.; Haug, E., 2; Spengler, E., 3.
Sambre R. (Belgium).—Stainier, X., 3.
Sambre-Meuse Basin (Belgium).—Fourmarier, P., 3.
Samland (East Prussia). — Brückmann, R., 1 & 2; Meyer, E.
Samoa Is. (Pacific). — Anderson, T.; Marshall, P.
Samoite.—Manasse, E.
Samotherium.—Khomenko, I.; Kormos, T., 5.
Sand, Asia.—Vendl, A., 4.
——, Belgium.—Fraipont, C., 3; Leriche, M., 8.
——, Cambs.—Rastall, R. H., 2.
——, Cher.—Grossouvre, A. de, 3.
——, Croatia.—Tucan, F., 5.
——, Denmark.—Harder, P.
——, Fontainebleau.—Bergeron, J., 5.
——, Hungary.—Melczer, G.
——, Paris Basin.—Jodot, P., 2.
——, Philippine Is. — Fanning, P. R., 3.
——, Suffolk.—Rastall, R. H., 3.
——, action of.—Björlykke, K. O.
——, floor of Mediterranean.—Chelussi, I., 2.
——, magnetic.—Mackenzie, G. C.
——, mineral constitution of.—Condit, D. D.; Vendl, A., 4.
——, porosity of.—Nœtling, F., 2.
——, transport of.—Owens, J. S.
Sand-lime bricks, Philippine Is.—Cox, A. J., 2.
——. *See also* Glass-sands.
Sandbergeroceras.—Clarke, J. M., 7.
Sandoway (Burma).—Brown, J. C., 2.
Sandstone, Red Barren Measures. — Smellie, W. R.
——, Wichita formation.—Udden, J. A., 2.
Sandstone, porosity of.—Monsen, A.
Sandwich Is.—Marshall, P.
Sanguinolaria.—Boussac, J.
Sanguinolites.—Cramer, R.; Mansuy, H.
Sanidinite.—Brauns, R.
Sankurn R. (Congo Belge). — Ledoux, A., 5.
Santander (Spain). — Mengaud, L., 1 & 2.
Saône-et-Loire (France). — Mayet, L., 2.
Sapropel.—Doss, B.
Sapropelite coal, Tasmania.—Hills, L.

Saratov (Russia).—Rozanov, A. N.
Sardinia.—Krasser, F.; Lovisato, D., 3; Pullé, G.; Tacconi, E., 2; Taricco, M.; Washington, H. S.
Sarek Mts. (Norrbotten).—Hamberg, A.; Tilmann, N.
Sármás (Hungary).—Papp, K. von, 3.
Sarstedt (Hanover).—Erdmannsdörffer, O. H.; Marèes, F. von.
Sarthe (France).—Bigot, A., 2.
Sasbach (Baden).—Söllner, J.
Sassina Valley (Lombardy).—Tacconi, E.
Sauerland (Westphalia).—Muegge, O., 3; Wegner, T., 2.
Saulces - Montchin (Ardennes).— Douvillé, R., 10.
Saulcy (Berne).—Œrtel, W., 2.
Saunton Down (Devon).—Evans, H. M.
Saurolophus, gen. nov.—Brown, B., 2.
Savaneta (Trinidad).—Guppy, R. J. L.
Savona (B.C.).—Drysdale, C. W.
Savonas (B. C.).—Monckton, G. F.
Savoy (France).—Chaix, E., 2; Girardin, P., 1 & 2; Joukowsky, E.; Kilian, C. C. W., 6 & 10; Pussenot, C.; Rabot, C.; Révil, J.; Riche, A.
Saxony.—Andrée, A.; Andrée, K.; Beck, R.; Beger, P. J.; Bergt, W.; Bernau, K.; Bœttcher, G.; Gagel, C., 5; Hundt, R., 2; Jækel, O., 5; Killig, F.; Kirschmann, W.; Michælis, P.; Pietzsch, K.; Schreiter, R.; Schröder, H.; Schumann, A.; Schwartz, F. A. H.
Scala.—Cossmann, A. E. M., 1 & 2.
Scalaria.—Bajarunass, M. W.; Boury, E. de, 4; Harder, P.; Scupin, H.
Scalidæ, Tertiary.—Boury, E. de, 1–4.
Scalpellum.—Scupin, H.; Withers, T. H., 2.
Scandinavia.—Milthers, V.
Scania.—Grönwall, K. A.; Hennig, A.; Nathorst, A. G., 4 & 5.
Scanno (Abruzzi).—Clerici, E., 2; Zuffardi, P.
Scaphander.—Boussac, J.
Scaphiocrinus.—Mansuy, H., 4.
Scaphites.—Scupin, H.
Scaphopoda, Eocene. — Boussac, J.; Dainelli, G., 3.
Scapolitization.—Baker, M. B.
Scarborough (Yorkshire).—Buckman, S. S.
Scenidium.—Reed, F. R. C.
Schachen Valley (Uri).—Staub, W.
Schalstein, Devon.—Reid, C., 3.
Schams (Grisons).—Zyndel, F., 3.
Scheelite-deposits, Tyrol.—Granigg, B., 2.
Schiefergebirge (Rhineland).—Bärtling, R., 3; Bornhardt, W.; Stamm, K.
—— (Lower Silesia).—Finckh, L.
Schifanoia (Umbria).—Pilotti, C.
Schio Beds, horizon of.—Oppenheim, P., 3.
Schistes lustrés, Franco-Italian Alps.—Boussac, J., 3.
Schists, Alaska.—Capps, S. R.; Knopf, A.
——, Anglesey.—Greenly, E., 1 & 2.
——, Belgium.—Doyen, A., 2.
——, British East Africa.—Parkinson, J.
——, Catalonia.—Pruvost, P., 4.
——, Egypt.—Ball, J.
——, Elba.—Manasse, E.
——, Liguria.—Martelli, A., 2.
——, Montana.—Emmons, W. H., 2.
——, Namaqualand.—Rogers, A. W.
——, Norway.—Oxaal, J.
——, Oki Is.—Kôzu, S.
——, Quebec.—Dresser, J. A.
——, Riesengebirge.—Berg, G.
——, Ross-shire.—Peach, B. N., 3.
——, Siberia. — Edelstein, J. S., 4; Kotulskii, V.
——, Switzerland.—Königsberger, J., 2.
——, Vermont.—Hitchcock, C. H.
——, Western Australia. — Blatchford, T.; Farquharson, R. A.; Talbot, H. W. B.
——, metamorphism of pre-Cambrian crystalline.—Adams, F. D.
——, origin of crystalline.—Sederholm, J. J., 7; Termier, P.
——, structure & constitution of. — Becke, F. J. K., 4.
Schitul-Golesti (Rumania). — Kern, J., 3.
Schizambon.—Reed, F. R. C.; Walcott, C. D.
Schizaster.—Boussac, J.; Dainelli, G., 2; Fourtau, R., 2; Lambert, J.; Scupin, H.
Schizobolus.—Clarke, J. M., 3 & 5.
Schizocrania.—Schuchert, C., 4.
Schizodesma.—Newton, R. B.
Schizodus.—Clarke, J. M., 7; Mansuy, H., 1 & 4.
Schizolepidella.—Halle, T. G., 3.
Schizopholis.—Walcott, C. D.
Schizophoria.—Clarke, J. M., 7; Klähn, H.; Prosser, C. S., 4; Schuchert, C., 4; Stauffer, C. R.
Schizoproetus, gen. nov.—Richter, R.
Schizopyge.—Clarke, J. M., 3.
Schleswig-Holstein.—Gagel, C., 4, 5, & 7; Haas, H.; Nordmann, V.
SCHMIDT, F.—*See* Sokolov, D. N., 4.
Schmidtia.—Walcott, C. D.
'Schollendom,' Kilauea.—Perret, F. A., 8.
Schlossberg - Spannort Mts. (Uri). — Ploeg, F. P. C. S. van der.
Schrattenfluh (Lucerne).—Schider, R.
Schuchertella.—Boutwell, J. M.; Clarke, J. M., 3, 5, & 7; Prosser, C. S., 4; Schuchert, C., 4; Tolmachev, I. P.
Schuchertina.—Walcott, C. D.
SCHULTEN, A. B. (Baron de), *Obit.*—*See* Anon., 19.
Schwagerina.—Deprat, J., 5.
Schwarza R. (Baden).—Bubnoff, S. von, 2.
Schwyz (Switzerland).—Buxtorf, A.
Sciuride.—Wegner, R. N.

Sciuropterus.—Wegner, R. N.
Sciurus.—Kormos, T., 4.
SCLATER, P. L., *Obit.*—*See* Anon., 20.
Scleropteris.—Halle, T. G., 3.
Scopelus.—Schubert, R. J.
Scorodite.—Buttgenbach, H., 7; Graham, R. P. D.; Zealley, A. E. V.
Scotland, sea-lochs of.—Gregory, J. W.
——, volcanic rocks in.—Flett, J. S.
——. *See also* Inverness-shire, *&c.*
Scrobicularia.—Björlykke, K. O., 3.
Scurria.—Toni, A. de.
Scutari (Albania).—Nopcsa, F.
Scutaster.—Pack, R. W.
Scutella.—Lambert, J., 2; Pack, R. W.
Scutella gibbercula.—Cottreau, J., 2.
Scutellina.—Chapman, F., 3.
Scylacops, gen. nov.—Broom, R., 7 & 11.
Scymnognathus.—Broom, R., 11 & 13.
Scyphocrinus.—Springer, F.
Sea-level changes, Japan.—Omori, F., 1–3.
Sea-sands, Mediterranean.—Chelussi, I., 2.
Sea-shelves.—Chamberlin, T. C., 3.
Sea-water, penetration of rocks by.—Hunt, A. R.; Lavis, H. J. J.
Secondary enrichment.—Bastin, E. S.; Brokaw, A. D.; Cooke, H. C.; Eddingfield, F. T., 3; Emmons, W. H.; Grout, F. F.; Rogers, A. F., 3; Shannon, E. V.; Spencer, A. C.
—— silicate zones.—Kemp, J. F., 5; Stewart, C. A., 2; Uglow, W. L., 2.
Secular elevation & depression, Northern Europe.—Geer, G. de, 2.
Sedimentary rocks, composition of.—Hobbs, W. H., 2.
—— ——, petrology of.—Rogers, G. S., 2.
Sedimentation.—Hahn, F. E., 4; Hatch, F. H. 2; Owens, J. S.
——, geological time &.—Holmes, A.
——, palæogeography &.—Andrée, K., 3.
Sediments, examination of.—Crook, T.
——, origin of Palæozoic.—Brown, T. C., 2.
——, types of European.—Deecke, W.
SEE, T. J. J., *Biogr.*—*See* Webb, W. L.
Seedorf (Uri).—Zyndel, F., 2.
Seeds, fossil.—*See* Plantæ.
Seewen Marls.—Rollier, L.
Segment & segmentation, the terms.—Adams, G. I., 2.
Seguenziceras.—Buckman, S. S., 2.
Sehnde (Hanover).—Hoffmann, G.
Seine Inférieure (France). — Dubus, A., 2; Duteurtre, M.; Lecureur, A.
Seine-et-Marne (France).—Bergeron, J., 5.
Seine-et-Oise (France). — Courty, G.; Dollfus, G. F., 10.
Seismographs.—Crémieu, V.; Perret, F. A., 7.
Seismology.—Milne, J.
——, International Congress of. — Hepites, S. C.
Seismology.—*See also* Earthquakes.
Seladonite.—König, G. A.
Selaginella.—Seward, A. C., 5.
Selaginellites.—Seward, A. C., 4.
Selbornian, Devon.—Ussher, W. A. E., 2.
Selbsanft (Glarus).—Keller, W. A.
Selemja R. basin (Amur). — Anert, E. E., 2; Khlaponin, A., 2.
Selenaria—Chapman, F., 3.
SELLA, Q., *Biogr.*—*See* Sacco, F.
Selsey (Sussex).—Lankester, Sir E. Ray; Sollas, W. J., 2.
Selvages I. (Maderia).—Gagel, C.
Semele.—Brown, A. P.
Semicassis.—Schaffer, F. X.
Semicoscinium.—Ulrich, E. O., 3.
Semieschara.—Brydone, R. M., 3.
Semirechensk Prov. (Siberia).—Kazanskii, P., 2.
Senegal (Africa).—Lacroix, A. F. A., 5.
Senftenbergia.—Gothan, W., 2.
Senonian, Brunswick.—Mestwerdt, A.
——, Silesia.—Scupin, H.
Sepia.—Cossmann, A. E. M., 2.
Septaria, Muschelkalk.—Wagner, G., 3.
Septarian structure. — Crook, T., 2; Davies, A. M.; Haselhurst, S. R.; Todd, J. E.
Septifer.—Boussac, J.
Sequanian, Switzerland.—Œrtel, W., 2.
Sequoia.—Fœrster, B.; Halle, T. G., 3.
Serbia.—Lazarevic, M., 2; Milojkovitch, F. A.; Wendeborn, B. A.
Sergipe (Brazil).—Branner, J. C.
Serpentine.—Gibb, A. W.
——, Albania.—Nopcsa, F.
——, Assam.—Pascoe, E. H.
——, Egypt.—Ball, J.
——, Elba.—Manasse, E.
——, Grisons.—Cornelius, H. P.
——, Liguria.—Martelli, A., 2; Stefani, C. de, 4.
——, Nias I.—Veen, A. L. W. E. van der.
——, Norway.—Holmsen, G.
——, Piedmont.—Schürmann, E., 2.
——, Silesia.—Beyschlag, F. H. A., 4.
Serpula.—Bœhm, G.; Chapman, F., 3; Dainelli, G., 3; Hohenstein, V.; Krumbeck, L.; Lœwe, H.; Maury, C. J.; Scupin, H.; Wegner, R. N.
Serpulites.—Clarke, J. M., 3 & 5.
Serpulopsis.—Kittl, E. A. L., 2.
Serre (Jura).—Azéma, L., 4; Bourgeat, F. E., 2.
Servoz (Hte.-Savoie). — Ungemach, H., 2.
Sethocapsa.—Squinabol, S.
Setodes.—Ulmer, G.
Seward Peninsula (Alaska).—Henshaw, F. F., 4.
Shales, analyses of.—Hobbs, W. H., 2.
——. *See also* Oil-shales.
Shansi Coalfield (China).—Williams, N. T.
Sharks, fossil.—Jordan, D. S.
Shasta Co. (California).—Kramm, H. E.

Shinarump Conglomerate, Arizona. — Gregory, H. E.
Shinarump formation, Utah.—Lawson, A. C., 2.
Shingle-spit, New Zealand. — Speight, R., 2.
Shira limestone, Argyll.—Bailey, E. B.
Shonkinite.—Brouwer, H. A.
Shooter's Hill (Kent). — Leach, A. L., 2.
Shore-lines, development of.—Clapp, C. H., 5.
Shropshire.—Cobbold, E. S., 1–3; Gibson, W., 2; Lapworth, C.; Strahan, A.
Shuswap Series.—Daly, R. A., 3.
Siam.—Heal, J. H.
Siberia.—Ahlburg, J., 4; Anert, E. E.; Bartels, W.; Boreisha, V.; Demin, A., 1 & 2; Derjavin, A.; Edelstein, J. S., 1–4; Fersmann, A. E., 2; Kotulskii, V., 1 & 2; Krasnopolski, A.; Malyavkin, S. F., 1–3; Meister, A.; Obrutshev, V., 1 & 2; Preobrazhenskii, P. I., 1 & 2; Seward, A. C.; Stalnov, G. A., 1 & 2; Tolmachev, I. P.; Voznesenskii, V. A.; *see also* Amur Prov., *&c.*
Sibirites.—Krumbeck, L.
Sicily. — Baratta, M.; Blanquier, J.; Cimino, E.; Fiore, O. de: Friedländer, I., 4; Platania, G., 4 & 5; Ponte, G.; Starrabba, F. S., 2; Stefani, C. de; Toso, P., 2; Wepfer, E.
Siderastræa.—Felix, J.
Siderite, New Mexico.—Hovey, E. O.
——, genesis of crystalline.—Redlich, K. A., 2.
Siderolites.—Prever, P. L.
Sideroplesite.—McDonald, D. P.
Sierra Leone.—Parkinson, J., 3.
Sierra Mojada (Mexico).—Van Horn, F. R., 2.
Sierra Morena (Spain).—Groth, J.
Siestan Beds.—Merriam, J. C., 5.
Sigaretus.—Brown, A. P.; Schaffer, F. X.
Sigmoilina.—Bagg, R. M.
Sikinos I. (Cyclades).—Papavasiliou, S. A.
Silent Pool (Surrey).—Young, G. W.
Silesia.—Berg, G., 1–3; Beyschlag, F. H. A., 4; Böker, H. E., 3; Cramer, R.; Gothan, W., 2 & 3; Götzinger, G., 2 & 3; Krusch, P., 2; Lepsius, R., 2; Michael, R., 1–3 & 5; Schulz, E.; Scupin, H.; Wegner, R. N.
Silica.—Gooch, F. A.; Tučan, F., 3.
Silica-minerals, stability relations of.—Fenner, C. N.
Silicates, melting-points of.—Endell, K., 3; Leitmeier, H., 1 & 2.
——, salt-solutions & formation of.—Schneiderhöhn, H.
Silo.—Ulmer, G.
Silurian, America (North).—Grabau, A. W., 1 & 4; Willis, B.
Silurian, Belgium. — Lassine, A., 1 & 2; Leriche, M., 4; Maillieux, E., 1 & 6.
——, Canada. — Parks, W. A., 1, 2, & 4.
——, Denmark.—Ussing, N. V.
——, Esthonia.—Born, A., 2.
——, India.—Reed, F. R. C.
——, Kent Borings.—Dawkins, W. B.
——, Lake District.—Postlethwaite, J.
——, Maine.—Williams, H. S., 2.
——, Manitoba.—Maclean, A.
——, Mauritania.—Chudeau, R.
——, Missouri.—Savage, T. E., 2.
——, Monmouthshire.—Gardiner, C. I.
——, New York.—Ulrich, E. O.
——, Normandy.—Anthoine, R., 3.
——, Nova Scotia.—Twenhofel, W. H.
——, Ohio.—Stauffer, C. R.
——, Pennsylvania.—Brown, T. C.
——, Saxony.—Hundt, R., 2.
——, Scania.—Grönwall, K. A.
——, Somerset.—Reynolds, G. H.
——, Spain.—Hernández-Pacheco, E.
——, Tongking.—Deprat, J.
——, Yorkshire.—Marr, J. E.
——, Yunnan.—Mansuy, H., 4.
——, boundary between Devonian &.—Dorlodot, H. de.
——, correlation of faunas. — Williams, H. S., 2.
—— iron-ore, Bohemia.—Klouček, C.
——. *See also* Downtonian *&* Gothlandian.
Siluridæ.—Neumayer, L.
Silver.—Bastin, E. S.; Cooke, H. C.; Palmer, C., 1 & 2; Veen, A. L. W. E. van der.
——, Abyssinia.—Krause, C.
——, Alaska.—Brooks, A. H., 2.
——, British Columbia.—Cairnes, D. D., 2.
——, Hungary.—Rozlozsnik, P.
——, Mexico.—Van Horn, F. R., 1 & 2.
——, Montana.—Emmons, W. H., 2.
——, Ontario.—Collins, W. H.; Miller, W. G., 2 & 4.
——, South Australia. — Jack, R. L., 3.
Silverbell (Arizona).—Stewart, G. A., 1 & 4.
Simcoe, Lake (Ontario).—Johnston, W. A.
Similkameen district (B.C.).—Camsell, C., 3.
Simoceras.—Fischer, E., 2; Steinmann, J. H. C. G. G., 4.
Simolestes.—Andrews, C. W., 3.
Simplon Tunnel.—Rothpletz, A., 2.
Sinai.—Barocelli, P.; Couyat, J., 2.
Sinocaris.—Mansuy, H., 4.
Sinter-deposits, New Zealand.—Bell, J. M.
Siphonalia.—Dickerson, R. E.
Siphonaria.—Cossmann, A. E. M., 2.
Siphonia.—Scupin, H.

Siphonotreta.—Chapman, F., 2; Walcott, C. D.
Sirenia.—Abel, O., 2.
Sirenites.—Frech, F., 2 & 5.
Sisenna.—Frech, F., 5; Kittl, E. A. L., 2.
Sismondia.—Cottreau, J.; Lambert, J.
Skagway (Alaska).—Cairnes, D. D., 3.
Skeena River (B.C.).—McConnell, R. G.
Skemmatite.—Ford, W. E., 2.
Skenidium.—Asselbergs, E.; Klähn, H.
Skiddaw Slates.—Postlethwaite, J.
Skye (Hebrides).—Strahan, A., 8; Tyrrell, G. W., 4
Slate, Devon.—Ussher, W. A. E.
——, Lake District.—Postlethwaite, J.
——, analyses of.—Hobbs, W. H., 2.
——, orbicular.—Thomas, Herbert H.
——, strength & weathering of. — Baker, E. R.
SLATER, H. K., *Obit.*—*See* Evans, J. W., 7.
Slate's Springs (California).—Davis, C. H., 1 & 2.
Slavonia.—Gorjanović-Kramberger, K.
Sligo (Ireland).—Cole, G. A. J.: Hobson, B., 2.
Slimonia.—Clarke, J. M., 6.
Smaalenene (Norway).—Rekstad, J., 5.
Smilotrochus.—Vogl, V.
Smithsonite.—Butler, G. M.
Smölen I. (Norway).—Schetelig, J., 2.
Snaröen (Norway).—Werenskiold, W.
Snow-line, Antarctica. — Brückner, E., 2.
Society Is.—Marshall, P.
Soda, Gebel (Tripoli).—Stefani, C. de, 5.
Soda-nitrate, Chile.—Ossa, B. D.
—— ——, Mexico & Texas. — Phillips, W. C.
Sodalite.—Starrabba, F. S.
Sodium, radioactivity of.—Brown, F. C.
Sœndre Fron (Norway).—Werenskiold, W., 2.
Soil, action of.—Brioux, C.
Soil-analysis.—Canavari, I.
Soil-maps.—Douxami, H.
Soils, Bavaria.—Köhne, W.
——, Egypt.—Audebeau Bey.
——, France.—Douvillé, R., 4.
——, Hungary.—Ballenegger, R., 1 & 2; Horusitzky, H.; Melczer, G.; Timkó, E.; Timkó, I., 2; Treitz, P., 1 & 2.
——, Italy.—Angelis d'Ossat, G. de, 1 & 2; Taramelli, T.
——, Portuguese W. Africa.—Gregory, J. W., 2.
——, Russia.—Kossowitsch, P.; Smirnov, V. P., 1 & 2; Tumin, G.
——, Sweden.—Tamm, O.
——, mineral constituents of.—Fry, W. H.; Hall, A. D.
——, productivity of.—Chamberlin, T. C.
Soïmonovsk (Ural Mts.).—Kler, O.
Solarium.—Boussac, J.; Dainelli, G.; Maury, C. J.; Vincent, E.
Solecurtus.—Björlykke, K. O., 3.
Soleniscus.—Mansuy, H., 4; Mark, C. G.
Solenomya.—Bittner, A., 2; Frech, F., 4.
Solenopora.—Hinde, G. J.; Priestly, R. E.
Solifluction.—Sapper, K., 2.
Sollenau (Austria).—Mayer, J.
Solomon Is.—Marshall, P.
Solothurn (Switzerland). — Mühlberg, F., 1 & 2.
Solution-cavities, Ohio.—Stauffer, C. R.
Solvorn Valley (Norway).—Monckton, H. W.
Sölvsburgite.—Skeats, E. W., 2
Somang R. (Java).—Douglas, E. A.
Somerset.—Bather, F. A., 2; Reynolds, S. H.; Richardson, L., 2; Strahan, A.; Winwood, H. H.
Somma, Monte (Vesuvius).—Starrabba, F. S.
Söndfjord district (Norway). — Landmark, J. D.
Söndhordland (Norway).—Reusch, H., 7.
Sonninia.—Renz, C., 6.
Soomylacris.—Pruvost. P., 5.
South Africa.—Lotz, H.; Schwarz, E. H. L., 3; Sutton, J. R.; Watson, D. M. S., 5 & 6; *see also* SOUTH AFRICA, Dept. of Mines.
South African Museum.—*See* CAPE OF GOOD HOPE, Rep. S. Afr. Mus.
Southall (Middlesex).—Proctor, E.
South Australia.—Jack, R. L., 1–4; Matthews. A. W.; Matthews, W. H.; Nœtling, F.; Ward, L. K., 1–4.
South-Eastern coalfield, England.—Dawkins, W. B.
South Polar Expedition, palæontological results of.—Berry, E. W., 2.
Southern Nigeria.—*See* GREAT BRITAIN, Colonial Office, 2 & 3.
—— Rhodesia.—Maufe, H. B.; Ranfaldi, F., 2; Wagner, P. A., 1 & 2; Zealley, A. E. V., 2; *see also* SOUTHERN RHODESIA, Geological Survey.
Sowerbyceras.—Spath, L. F.
Spain.—Adan de Yarza, R.; Adaro, L. de; Cereceda, J. D.; Jiménez de Cisneros, D.; Groth, J.; Halbfass, W., 2; Hernández-Pacheco, E.; Königsberger. J., 6; Preiswerk, H., 2; Scotti, H.; Villasante, F. B.; Wetzig, B.; *see also* Catalonia, Murcia, *&c.*
Spaniodontella.—Shvetz, F. P.
Spaniorinus.—Cossmann, A. E. M., 2.
Sparagmite, Norway.—Werenskiold, W., 2.
Sparagmite pebbles, palæontology of.—Rothpletz, A.
Sparnacian, France.—Courty, G.; Jodot, P., 2.
Spatangus.—Schaffer, F. X.
Specific gravity, determination of. — Goldschmidt, V.
Spectrograph.—Hutchins, C. C.

Sperenberg (Brandenburg).—Hess von Wichdorff, H.

Sperrylite, artificial.—Wells, H. L.

Spessart (Germany).—Meyer, H. F. L., 2.

Spessartite.—Thomson, J. A.

Spey Basin (Inverness-shire).—Barrow, G., 3.

SPEZIA, G., *Obit.* — *See* Colomba, E., 2 *&* Parona, C. F.

Sphærexochus.—Reed, F. R. C.

Sphæriola.—Koken, E.

Sphærium.— Cossmann, A. E. M., 2; Germain, L.

Sphæroceras.—Bœhm, G., 2; Renz, C., 6.

Sphærocodium.—Wagner, G., 3.

Sphærocystites.—Schuchert, C., 3.

Sphærolites.—Gaubert, P., 1 & 2.

Sphæropthalmus.—Lake, P.

Sphagapæa.—Hussakof, L.

Sphaleropalpus.—Ulmer, G.

Sphenia.—Cossmann, A. E. M., 2.

Sphenolepidium.—Halle, T. G., 3; Seward, A. C., 4.

Sphenophyllum.—Ball, L. C.; Gortani, M., 2; Zobel, A.

Sphenopteris.—Ball, L. C.; Gothan, W., 2; Halle, T. G., 3; Seward, A. C., 1 & 2.

Sphenopteridium.—Gothan, W., 2.

Sphenotus.—Asselbergs, E.; Clarke, J. M., 3, 5, & 7; Lœwe, H.

Sphyrna.—Priem, F., 2.

Sphyropteris.—Gothan, W., 2.

Spilite.—*See* Pillow-lava.

Spirangium.—Dun, W. S., 2.

Spirialis.—Cossmann, A. E. M., 2.

Spirifer.—Asselbergs, E., 2; Boutwell, J. M.; Chapman, F., 2; Clarke, J. M., 3, 5, & 7; Gortani, M., 2; Klähn, H.; Kozlowski, R.; Lahee, F. H.; Leriche, M.; Lœwe, H.; Mansuy, H., 1 & 2; Mark, C. G.; Pellizzari, G.; Prosser, C. S., 4; Pruvost, P., 4; Schuchert, C., 4; Shimer, H. W.; Stauffer, C. R.; Tolmachev, I. P.; Williams, H. S., 3.

Spirifer bouchardi.—Maillieux, E., 3.

Spiriferina.—Bittner, A.; Boutwell, J. M.; Cramer, R.; Frech, F., 4; Mansuy, H., 1 & 4; Yakovlev, N.

Spirigera.—Bittner, A.; Krumbeck, L.; Lœwe, H.

Spirigerella.—Mansuy, H., 4.

Spirocapsa.—Squinabol, S.

Spirocyclina.—Kittl, E. A. L., 2.

Spiroloculina.—Bagg, R. M.

Spiropora.—Wolfer, O.

Spirorbis.—Chapman, F., 3; Clarke, J. M., 7; Frech, F., 5; Hohenstein, V.; Lœwe, H.

Spiticeras.—Steinmann, J. H. C. G. G., 4.

Spitsbergen.—Geer, G. de, 3; Gregory, J. W.; Hœl, A., 2; Hœgbom, B., 1 & 2; Nathorst, A. G., 8.

Spizza (Dalmatia).—Bukowski, G. von.

Spoleto (Umbria).—Principi, P.; Verri, A.

Spondylus.—Boussac, J.; Brown, A. P.; Gillitzer, G.; Krumbeck, L.; Maury, C. J.; Scupin, H.

Sponges.—*See* Porifera.

Spongophyllum.—Etheridge, R., *fil.*

Sporogelite.—Dœlter, C., 2.

SPRING, W., work of.—Lohest, M., 2.

Springs, Bohemia.—Beyer, O.

——, Hungary.—Horusitzky, H.; Horváth, B. von, 2; Papp, K. von.

——, Saxony.—Beyer, O.

——, helium in gaseous.—Czako, E.

——. *See also* Thermal Springs.

Spyroceras.—Prosser, C. S., 4; Stauffer, C. R.

Squatina.—Jordan, D. S.

Stachyopitys.—Halle, T. G., 3.

Staddon Grits.—Ussher, W. A. E.

Staffordshire. — Arber, E. A. N., 2; Gibson, W., 2; Kay, H.; Lapworth, C.; Strahan, A.

Stalactite.—Bœggild, O. B., 3.

Stanley Falls (Central Africa). — Mathieu, F. F.

Stannine.—Friedel, G.

Starbuck I. (Pacific).—Elschner, C.

Stari-Slankamen (Slavonia). — Gorjanović-Kramberger, K.

Starks Knob (N.Y.).—Cushing, H. P.

Stassfurt (Prussia).—Schünemann, F.; Zimmermann, E., 2.

STATUTI, A., *Obit.*—*See* Neviani, A.

Stauranderaster.—Spencer, W. K.

Staurodictya.—Squinabol, S.

Staurograptus.—Hahn, F. F.

Steatite. — Hayden, H. H., 2; Pilgrim, G. E.

STEENSTRUP, K. J. V., *Obit.* — *See* Bœggild, O. B., 4 *&* Grönwall, K. A., 2.

Steeprock Lake (Ontario).—Uglow, W. L.

STEFANESCU, G., *Obit.*—*See* Popescu-Voitesti, I.

Stegocephalia.—Broili, F.; Broom, R., 6; Reis, O. M., 2.

Stegodon.—Dawson, C., 2; Stefanescu, S.

STEINMANN's Middle Terrace, Basel.—Van Werveke, L., 6.

Stellaster.—Scupin, H.

Stellenbosch (Cape Province).—Shand, S. J.

Stellispongia.—Orbigny, A. D. d'.

Steneofiber.—Wegner, R. N.

Steneosaurus.—Andrews, C. W., 3.

Stenochisma.—Schuchert, C., 4.

Stenomylacris.—Pruvost, P., 5.

Stenopora.—Ulrich, E. O., 3.

Stenopsyche & Stenoptilomyia.—Ulmer, G.

Stenorhachis.—Seward, A. C., 1 & 2.

Stenorhytis.—Boury, E. de, 4; Cossmann, A. E. M.

Stephanian.—Pussenot, C., 2.
Stephanite.—Ungemach, H.
Stephanoceras.—Bœhm, G., 2; Renz, C., 6.
Stephanocœnia.—Speyer, C.
Stephanoconus.—Dainelli, G.
Stephanoseris.—Felix, J.
Stephanospermum. — Nathorst, A. G., 2.
Stepheoceras.—Douvillé, R.
Steppes (Russia).—Kossowitsch, P.
Stereocidaris.—Wegner, R. N.
Stereolasma.— Prosser, C. S., 3.
Sthenodectes.—Riggs, E. S.
Stibiobismuthinite.—König, G. A.
Stichocampe.—Schmidle, W.
Stichocapsa.—Squinabol, S.
Stichtite.—Himmelbauer, A., 2.
Stichtopora.—Reed, F. R. C.; Ulrich, E. O., 3.
Stiffe, A. W., *Obit.*—*See* Monckton, H. W., 3.
Stirlingshire.—Gregory, J. W., 3; Reoch, J. W.; Strahan, A.
Stockach (Baden).—Deninger, K.
Stockbridge (Hants).—White, H. J. O.
Stockdale Shales.—Postlethwaite, J.
Stockholm (Sweden).—Geer, G. de, 4; Geijer, P., 2; Hœgbom, A. G., 2.
Stolidoma.—Cossmann, A. E. M., 2.
Stomatopora.—Canu, F.; Wolfer, O.
Stone, technology of.—Elsden, J. V.
Stone-age, France.—Cotte, C., 2.
——, North Africa.—Dalloni, M., 3.
——, Norfolk.—Nightingale, R. C.
——, Sweden.—Fuerst, C. M.
Stonehaven (Kincardine).—Campbell, R., 1 & 2.
Stony Mountain (Manitoba).—Maclean, A.
Stormberg district (Cape Province). — Dutoit, A. L., 1 & 2.
Stour Valley (Suffolk).—Boswell, P. G. H.
Strabops.—Clarke, J. M., 6.
Strafford (Vermont).—Hitchcock, C. H.
Strain-slip, Shushwap Series.—Daly, R. A., 2.
Stramberg (Moravia).—Remeš, M., 2.
Straparollus.—Boutwell, J. M.; Clarke, J. M., 7.
Strathmore Group.—Campbell, R.
Strathspey, Upper (Inverness-shire).—Barrow, G., 3.
Stratigraphy, variations in American Cretaceous.—Stanton, T. W.
Straubing (Bavaria).—Kranz, W.
Streblopteria.—Frech, F., 5.
Streetsville (Ontario).—Parks, W. A., 3.
Streitberg (Bavaria).—Kellermann, —.
Strengite.—Schaller, W. T., 3.
Strephochetus Beds.—Perkins, G. H.
Strepsidura.—Maury, C. J.
Streptelasma.—Reed, F. R. C.; Swartz, C. K., 2.
Streptorhynchus. — Lœwe, H.; Tolmachev, I. P.
Streptotrochus.—Williams, H. S.
Strepula.—Ulrich, E. O., 3.
Stress in rocks, fractures in relation to.—Wilson, M. E.
Striatopora.—Gortani, M., 2; Swartz, C. K., 2.
Stringocephalus.—Mansuy, H., 4.
Strobilites.—Seward, A. C., 6.
Strobl (Upper Austria).—Spengler, E.
Strömstad (Sweden).—Geer, G. de, 5.
Stromatolithic fossilization. — Reis, O. M.
Stromatopora.—Gortani, M.; Swartz, C. K., 2; Wolfer, O.
Stromatoporella.—Gortani, M.
Stromatotrypa.—Ulrich, E. O., 3.
Stromberg (Rhenish Prussia). — Jahn, A.
Stromboli.—Perret, F. A., 10; Platania, G.
Strombus. — Boussac, J.; Schaffer, F. X.
Strongylopora.—Maplestone, C. M.
Strophalosia.—Lœwe, H.; Mansuy, H., 4; Prosser, C. S., 1 & 4.
Stropheodonta.—Asselbergs, E., 1 & 2; Clarke, J. M., 7; Kozlowski, R.; Lahee, F. H.; Prosser, C. S., 4; Reed, F. R. C.; Schuchert, C., 4; Stauffer, C. R.; Tolmachev, I. P.
Strophipora.—Maplestone, C. M.
Strophomena.—Leriche, M.; Lœwe, H.; Mansuy, H., 2 & 4; Reed, F. R. C.
Strophonella.—Clarke, J. M., 7; Schuchert, C., 4.
Strophostylus.—Ohern, D. W., 5.
Strüverite.—Lacroix, A. F. A.
Stubay Alps (Tyrol).—Lagally, M.
Stugun (Jemtland).—Carlzon, C.
Stylarœa.—Reed, F. R. C.
Stylemys.—Lambe, L. M.
Stylina. — Blanckenhorn, M.; Speyer, C.
Styliolina.—Clarke, J. M., 7; Prosser, C. S., 4.
Stylocellus.—Petrunkevich, A.
Stylolites.—Wagner, G., 2.
Stylonurus.—Clarke, J. M., 6.
Styria.—Dreger, J.; Gaulhofer, K.; Geyer, G.
Sub-Crag flints.—*See* Flints.
Subasio, Monte (Umbria). — Fiorentin, L., 2; Principi, P., 3; Verri, A.
Submarine volcanoes.—*See* Volcanoes.
Submerged forests.—Hunt, A. R., 4; Reid, C.; Warren, S. H.
Subula.—Schaffer, F. X.
Subuliscala.—Cossmann, A. E. M.
Sudan.—Dunn, S. C.
Sudbury (Ontario).—Coleman, A. P., 4, 6, & 7; Collins, W. H., 2.
Sudbury (Vermont).—Dale, T. N., 2.
Sujensk (Siberia).—Derjavin, A.
Süntel district (Hanover). — Albrecht, H.; Lœwe, F; Œrtel, W.
Suess, E., *Biogr.*—*See* Anon., 21.
Suez (Egypt).—Couyat, J., 4 & 5.

Suffolk.—Bell, A.; Boswell, P. G. H., 1 & 2; Clarke, W. G.; Hewitt, H. D.; Marr, J. E., 2; Moir, J. R., 5 & 6; Rastall, R. H., 3; Strahan, A., 5.
Sugarloaf Hill (Victoria). — Jutson, J. T., 2.
Sukhum (Caucasus).—Shvetzov, M.
Sulden Glacier (Tyrol).—Finsterwalder, S.; Klebelsberg, R. von, 2.
Sulphates, Crimea.—Popov, S. P.
——, Utah.—Butler, B. S., 2.
Sulphides.—Grout, F. F.
——, Montana.—Knopf, A., 4.
——, Silesia.—Schulz, E.
——, enrichment of. — Bastin, E. S.; Butler, B. S.; Emmons, W. H.; Rogers, A. F., 3.
——, replacement of.—Zealley, A. E. V., 2.
Sulphur, Africa (S.W.).—Range, P.
——, Belgium.—Halet, F., 2.
——, Canada.—Wilson, A. W. G.
——, Persia.—Stahl, A. F.
——, Persian Gulf.—Pilgrim, G. E.
——, Philippine Is. — *See* PHILIPPINE Is.
——, Sicily.—Blanquier, J.; Cimino, E.; Toso, P., 2.
——, U.S.A.—Lindgren, W.
——, in water.—Hackl, O.
Sumatra (D.E.I.).—Douglas, E. A., 2; Friederichsen, M., 2; Tobler, A.; Volz, W.
Sumatrina.—Deprat, J., 5.
Sunderland (Durham).—Woolacott, D., 3.
Sundgau (Alsace). — Van Werveke, L., 9.
Superior, Lake (N. Am.).—Spencer, J. W. W., 3; Wilson, M. E., 4.
Surcula.—Bajarunass, M. W.; Boussac, J.; Cossmann, A. E. M., 2; Dainelli, G.; Dickerson, R. E.; Harder, P.; Vincent, E.
Surface-water, Atlantic Coast, U.S.A.—Babb, C. C., 1 & 2.
——, Alaska.—Henshaw, F. F., 4.
——, California.—McGlashan, H. D., 1–4; Wood, B. D.
——, —— (Pacific Coast).—Clapp, W. B.
——, Cascade Range, U.S.A. — Henshaw, F. F., 3.
——, Colorado R. basin.—Freeman, W. B.
——, Great Basin, U.S.A.—Henshaw, F. F., 2; La Rue, E. C.
——, Gulf of Mexico. — Follett, W. W.
——, Hawaii.—Martin, W. F.
——, Hudson Bay.—Follansbee, R.
——, Mississippi R. basin.—Follansbee, R.; Freeman, W. B.
——, North Pacific Coast, U.S.A.—Henshaw, F. F.
——, Ohio R. basin.—Horton, A. H.
Surface-water, St. Lawrence R. basin.—Covert, C. C.
——. *See also* Water.
Surrey.—Barrow, G., 4; Bromehead, C. E. N.; Bury, H., 1 & 2; Johnson, W.; Kidner, H., 2; Whitaker, W.; Young, G. W.
Surveying, classification of lands in.—Smith, G. O., 2.
——, geological.—Anderson, R.; Ball, L. C., 2; Barnett, V. H.; Barrell, J., 2; Berkey, C. P.; Blackwelder, E., 3; Calkins, F. C.; Clapp, C. H., 4; Crawford, R. D.; Gardner, J. H.; Hartley, B.; Irving, J. D.; Johnson, D. W.; Kemp, J. F., 3; Leverett, F.; Moon, F. W.; Mosier, H.; Ohern, D. W., 2; Petersson, W.; Scupin, H., 2; Smith, F. C.; Smith, G. O.; Smith, P. S.; Stebinger, E.; Stose, G. W.; Woodruff, E. G.
Surveying instruments. — Heim, A., 2; Mills, F. P.
Sus.—Grossouvre, A. de, 3.
Susquehanna R. (Pennsylvania).—Darton, N. H.
Sussex.—Dawson, C., 1 & 2; Kolderup, C. F.; Lankester, Sir E. Ray; Seward, A. C., 4; Sollas, W. J., 2; Woodward, A. S.
Sutan overthrust (Rhenish Prussia).—Tilmann, N., 2.
SUTCLIFFE, W. H., *Obit*.—*See* Platt, S. S.
Sutherland.—Seward, A. C., 6; Strahan, A.
Sutneria.—Fischer, E., 2.
Svartisen (Norway).—Marstrander, R.
Sveltella.—Cossmann, A. E. M., 2.
Swabia.—Berckheimer, F.; Dittus, W.; Fischer, E., 2; Fraas, E.; Freudenberg, W., 2; Geyer, D.; Hoffmann, G., 2; Lang, R.; Mylius, H.; Wolfer, O.
Swanage (Dorset).—Andrews, C. W.
Swanscombe (Kent).—Smith, R. A., 2.
Swantonia.—Walcott, C. D.
Sweden.—Carlzon, C.; Erdmann, E.; Fuerst, C. M.; Geer, G. de, 4 & 5; Geijer, P., 2; Gregory, J. W.; Hallén, K.; Hœgbom, A. G., 3 & 4; Holmquist, P. J., 3; Lindman, A.; Munthe, H., 4; Nordenskjöld, O., 3; Petersson, W.; Quensel, P. D., 2; Sernander, R.; Sjögren, H., 2; Sobral, J. M.; Stolpe, P.; Tamm, O.; Trœdsson, G.; Wallerius, I. D.
Swedish South Polar Expedition. — Berry, E. W., 2.
Switzerland.—Arbenz, P.; Bärtschi, E.; Frei, R., 1 & 2; Heim, A., 3; Lugeon, M., 4 & 5; Sarasin, C.; Stehlin, H. G.; *see also* Uri, *&c.*; *&* SWITZERLAND, Schweiz. Geol. Komm.
Sybillites.—Frech, F., 2.
Sydney Coalfield (Cape Breton).—Hyde, J. E., 2; White, D., 3; Young, G. A.
Syenite, Bohemia.—Michel, H., 7.

Syenite, Canada.—Adams, F. D., 4.
——, Egypt.—Ball, J.
——, Hungary.—Mauritz, B., 2.
——, New Guinea.—Hendring, O. G.
——, Oki Is.—Kôzu, S.
——, Ontario.—Barlow, A. E.
——, Pays Basque.—Lapparent, J. de.
——, Transvaal.—Humphrey, W. A.
——, Virginia.—Watson, T. L., 2.
——, Yunnan.—Deprat, J., 4.
Sylvanite.—Simpson, E. S.
Sylvine.—Dürrfeld, V.; Görgey, R.; Ritzel, A.
Symbos.—Allen, J. A.
Symplesite.—Tyrrell, J. B., 5.
Synaptophyllum.—Stauffer, C. R.
Syncyclonema.—Scupin, H.
Synechodus.—Dickerson, R. E.
Syntrophia.—Walcott, C. D.
Syria.—Blanckenhorn, M.; Dominian, L.; Fourtau, R.
Syringostroma.—Swartz, C. K., 2.
Syringothyris.—North, F. J.; Prosser, C. S.; Williams, H. S., 3.
Syrnola.—Cossmann, A. E. M., 2.
Szászkabánya (Hungary).—Liffa, A., 2.
Százrégen (Hungary).—Gaál, S. von.
Sze Chwan Province (China).—Cremer, —.
Szelindek & Szenterzsébet (Hungary).—Halaváts, G. von.
Szered (Hungary).—Horusitzky, H.
Szilágysomlyó (Hungary).—Roth von Telegd, L., 3.
Sztrimba (Hungary).—Papp, K. von, 2.

Table Cape Beds.—Pritchard, G. B., 2.
Tachea.—Germain, L.
Tæniopteris.—Arber, E. A. N., 4; Dun, W. S.; Seward, A. C., 2.; Zeiller, R.
Tagish Lake (Yukon).—Tyrrell, J. B., 5.
Tagliamento Valley (Venetia).—Gortani, M., 4.
Tahiti.—Lacroix, A. F. A., 5.
Talc.—Knight, C. W.; Roccati, A.
Talc-chlorite-rocks.—Farquharson, R. A.
Talca Prov. (Chile).—Vogel, M.
Talpa.—Wegner, R. N.
Tamaulipas (Mexico).—Wentworth, I. H.
Tambov (Russia).—Tumin, G.
Tamesi R. district (Mexico).—White, I. C.
Tamines (Namur).—Lassine, A., 2.
Tancredia.—Mansuy, H., 2.; Ravn, J. P. J.
Tancrediopsis.—Prosser, C. S., 4.
Tanganyika, Lake (East Africa).—Mathieu, F. F., 7; Tornau, F.
Tantalus Conglomerates.—Cairnes, D. D.
Tapes.—Björlykke, K. O., 3.; Boussac, J.; Scupin, H.; Shvetz, F. P.; Woods, H.
Tapinocephalus.—Haughton, S. H.
Tapirus.—Campana, D. del; Merriam, J. C.
Tapuaenuka, Mount (N.Z.).—Thomson, J. A., 2.
Taraklia (Caucasus).—Khomenko, I.
Taranaki (N.Z.).—Clarke, E. de C.
Tarantula.—Petrunkevich, A.
Tarcoola Goldfield (S. Australia).—Matthews, W. H.
Tarentaise, Haute.—Boussac, J., 2.
Taruntal Mts. (Tyrol).—Hartmann, E.
Tarphyceras.—Perkins, G. H.
TARR, R. S., *Obit.*—*See* Lamplugh, G. W., 2; *&* Woodworth, J. B.
Tarragona (Spain).—Bertrand i Cavaller, F.
Tartavalle (Lombardy).—Tacconi, E.
Tasmania.—Dun, W. S., 3.; Gilbert, C. G.; Hills, L.; Johnson, J. P.; Pritchard, G. B., 2; Smith, R. A.; Stephens, T.; Twelvetrees, W. H.; *see also* TASMANIA, Dep. Mines.
Tasmanite-shale.—Twelvetrees, W. H.
—— spore-beds.—Dun, W. S., 3.
Tata (Hungary).—Kormos, T., 3.
Tatra Mts. (Hungary).—Limanowski, M.
Taubach (Thuringia).—Siegert, L.
Tauern (Austria).—Sander, B.; Sigmund, A.
Taurotragus.—Gidley, J. W., 2.
Taurus Mts. (Anatolia).—Frech, F., 8; Milch, L.
Tavistock (Devon).—Russell, A.
Tavoy (Burma).—Bleeck, A. W. G.
Taxites.—Seward, A. C., 2 & 6.
Tcherny R. basin (Amur).—Makerov, Y. A., 2.
Tebar (Murcia).—Rubio y Muñoz, C.
Technocrinus.—Ohern, D. W., 3.
Technophorus.—Branson, E. B.
Tectite.—Michel, H., 2.
Tectonic earth-movements.—Lang, R., 2.
Tectonics, experiments in.—Königsberger, J., 10.
Tegelen (Holland).—Newton, E. T.
Teichaster, gen. nov.—Spencer, W. K.
Teilhardia, gen. nov.—Seward, A. C., 4.
Teleoceras.—Wegner, R. N.
Telephus.—Hadding, A.
TELLER, F., *Obit.*—*See* Diener, C., 4; Hammer, W., 3; *&* Tietze, E., 2.
Tellina.—Boussac, J.; Brown, A. P.; Davis, C. H.; Dickerson, R. E.; Dollfus, G. F.; Fœrster, B.; Scupin, H.; Woods, H.
Tellinopsis.—Prosser, C. S., 4.
Telluride (Colorado).—Kemp, J. F., 4.
—— ores, W. Australia.—Simpson, E. S.
Tellurides, igneous magmas &.—Thomson, J. A.
Tellurium.—Uhler, H. S.
Temagami (Ontario).—Miller, W. G., 2 & 3

Temiskaming (Ontario).—Miller, W. G., 2 & 4.
Temnaster.—Lambert, J.
Temnocheilus.—Cramer, R.
Temnopleurus.—Lambert, J.
Temperature (of Earth), influence of carbonic acid on.—Arrhenius, S.
Temperature, petroleum deposits &.—Tănăsescu, I.
Temperature, underground. — Bell, J. M.; Johnston, J.; Königsberger, J., 7; Sacco, F., 3.
Tenagodes.—Cossmann, A. E. M.
Tendaguru (Tanganyika).—Hennig, E., 2 & 4; Janensch, W., 1 &2; Staff, H. von.
Tennessee (U.S.A.).—Kämmerer, P., 1 & 2; Marshall, R. B., 6.
Tentaculites.—Clarke, J. M., 3, 5, & 7; Kozlowski, R.; Leriche, M.; Mansuy, H., 4; Ohern, D. W., 5; Prosser, C. S., 4; Reed, F. R. C.; Stauffer, C. R.
Tenuicerithium.—Cossmann, A. E. M., 2.
Tenuiscala.—Cossmann, A. E. M.
Tephrite.—Hibsch, J. E., 2; Martius, S.
Tephrocyon.—Merriam, J. C., 4.
Terebellum.—Vincent, E.
Terebra.—Brown, A. P.; Dickerson, R. E.; Schaffer, F. X.; Suter, H.
Terebratella.—Chapman, F., 3.
Terebratulina.—Chapman, F., 3; Cossmann, A. E. M., 2; Gillitzer, G.
Terebripirena.—Cossmann, A. E. M.
Terebripora.—Orbigny, A. D. d'.
Terebratula.—Bittner, A.; Harder, P.; Mansuy, H., 1 & 2; Maury, C. J.; Richardson, L., 3; Schaffer, F. X.; Schöndorf, F., 3.
Terebratula humeralis Zone.—Schöndorf, F., 2.
Teredina.—Cossmann, A. E. M., 2.
Teredo.—Harder, P.
Teregora (Hungary).—Roth von Telegd, L.
Ternate I. (Moluccas).—Chelussi, I
'Terra Nova' Expedition.—Arber, E. A. N., 4.
Terraces, Algeria.—Joly, A., 3.
——, Danube.—Zenetti, P.
——, France. — Assada, I.; Blayac, J.; Martin, D.
——, Greece.—Négris, P., 6.
——, Hesse.—Schottler, W., 2 & 3.
——, Norway.—Holmsen, G. 2; Monckton, H. W., 2; Reusch, H., 4.
——, Switzerland. — Gutzwiller, A.; Van Werveke, L., 6.
——, Tyrol.—Ampferer, O., 2.
——, Weser Valley.—Grupe, O.; Siegert, L., 2.
Tertiary, Alsace & Mayence Basin.—Wagner, W.
——, America (N.).—Willis, B.
——, Baden.—Söllner, J.; Wurz, O.
Tertiary, Belgium. — Cumont, G.; Cornet, J., 3.
——, Bosnia.—Katzer, F.
——, California.—Louderback, G. D.
——, Carpathian Mts.—Michael, R., 4.
——, Chile & Tierra del Fuego — Felsch, J.
——, Crimea.—Shvetz, F. P.
——, Denmark.—Ussing, N. V.
——, Devon.—Ussher, W. A. E.
——, Egypt.—Couyat, J., 4; Klebelsberg, R. von.
——, France. — Degrange-Touzin, A.; Gosselet, J. A. A., 3.
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——, Holland.—Molengraaff, G. A. F.
——, Hungary.—Schubert, R. J.
——, Italy.—Prever, P. L.
——, Java.—Martin, K.
——, Malta.—Stefani, C. de, 3.
——, Moldavia.—Florea, G.
——, Morocco.—Brives, A., 2.
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——, Pacific Coast.—Merriam, J. C.
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——, Silesia.—Oppenheim, P.
——, South Africa.—Newton, R. B.
——, Spain.—Villasante, F. B.
——, Switzerland. — Ploeg, F. P. C. S. van der.
——, Turkey.—Arabu, —.
——, Venetia.—Oppenheim, P., 3.
——, Vermont.— Perkins, G. H.
——, Washington.—Weaver, C. E.
——, Wyoming.—Sinclair, W. J.
——, distribution of Nummulites & Orbitoids in.—Prever, P. L.
Tertiary Antarctic continent, the supposed.—Dyer, Sir W. T. T.
Tertiary salt-deposits, Germany.—Harbort, E., 6.
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Teschen.—Oppenheim, P.
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Test Valley (Hants).—Dale, W.
Testudo.—Lambe, L. M.; Teppner, W.
Tetrabelodon.—Wegner, R. N.
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Tetracystis.—Schuchert, C., 3.
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Teutoburg Forest (Westphalia).—Wegner, T., 2.
Texas (U.S.A.). — Bosworth, T. O.; Broili, F.; Gordon, C. H.; Phillips, W. C.; Udden, J. A., 2; Williston, S. W., 2.

Text-books, geology.—Arldt, T.; Jukes-Browne, A. J., 2; Kayser, E.; Launay, L. de, 3.
——, mineralogy.—Rogers, A. F.
——, mineral deposits.—Lindgren, W., 2.
——, —— & metalliferous deposits.—Launay, L. de, 2.
——, palæontology.—Zittel, K. A. von.
——, petrology.—Hatch, F. H., 2; Mennell, F. P.
——, tectonic geology.—Wilckens, O.
Textularia.—Bagg, R. M.; Schmidle, W.
Tezechoacan R. (Mexico).—Wittich, E., 3.
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Thames Valley.—Reid, C.
Thamnastrea.—Speyer, C.
Thamniscus.—Ulrich, E. O., 3.
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Thericium.—Cerulli-Irelli, S.
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Thermal springs.—Schneider, K., 2.
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—— ——, Cape Province. — Smith, G. W.
—— ——, Cetina Valley. — Kerner, F. von, 2.
—— ——, Colorado.—Emmons, W. H., 4.
—— ——, Hesse. — Van Werveke, L., 10.
—— ——, Katanga. — Mathieu, F. F., 7.
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—— ——, Loèche-les-Bains.—Lugeon, M.
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—— ——, Yellowstone Park. — Chaix, E., 4.
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Thornbury (Gloucester). — Thompson, W.
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Tin.—Tronquoy, R.
——, Alaska.—Brooks, A. H., 2; Eakin, H. M.
——, Banka.—Bijdendijk, J. G.; Ploeg, F. P. C. S. van der, 2.
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——, Congo Belge.—Guillemain, C., 2; Gwyn-Williams, R. H.
——, German S.W. Africa.—Range, P.; Rimann, E.
——, New South Wales.—Carne, J. E.
——, Northern Territory of Australia.—Woolnough, W. G.
——, Portugal & Spain.—Preiswerk, H., 2.
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——, Transvaal.—Kynaston, H.
——, Yunnan.—Deprat, J., 4.
Tiphys.—Harder, P.
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Tisza R. district (Hungary).—Timkó, I., 2.
Titaniferous iron, Colorado.—Singewald, J. T.
—— ——, Hungary.—Vendl, A., 2.
—— ——, Sweden.—Sobral, J. M.

Titaniferous magnetite. — Brunton, S.; Newland, D. H.; Singewald, J. T., 2.
—— rocks, analyses of.—Thornton, W. M.
Titanite.—Ranfaldi, F.
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——, Moravia.—Remeš, M.
——, Peru.—Steinmann, J. H. C. G. G., 4.
Titicaca, Lake & I. (Bolivia).—Gregory, H. E., 3 & 4.
Tivela.—Jukes-Browne, A. J., 4; Newton, R. B.
Tmægoceras.—Renz, C., 7.
Tmetoceras.—Douvillé, R., 7.; Lory, P., 2.
Toarcian, N. Africa.—Painvin, G. J.
Todea.—Zeiller, R.
Todites.—Halle, T. G., 3; Krishtofovich, A.; Thomas, H. Hamshaw, 2.
Todtengebirge (Austria).—Geyer, G., 3.
Tölz (Bavaria).—Penck, A., 4.
Tofo (Chile).—Vattier, C.
Togoland.—Leriche, M., 6.
Toledo (Spain). — Hernández-Pacheco, E.
Tomboy Mill (Colorado).—Kemp, J. F., 4.
Tomsk (Siberia).—Smirnov, V. P., 2.
Tonalite.—Hradil, G.
—— -rocks.—Becke, F. J. K., 3 & 6.
Tonalose.—Watson, T. L., 2.
Tonga Is.—Marshall, P.
Tongking. — Deprat, J., 1–3; Mansuy, H., 2; Pelourde, F.
Tonopah (Nevada).—Kraus, E. H., 2; Locke, A.; Rogers, A. F., 5.
Topaz.—Ellsworth, H. V.; Fenner, D.; Ungemach, H.; Wittich, E., 4.
Topsham (Devon). — Carus-Wilson, C., 2.
Torbay (Devon).—Hunt, A. R., 2 & 6; Jukes-Browne, A. J., 1 & 7.
Tornatellæa.—Boussac, J.
Torneträsk (Sweden).—Sjögren, O,
Tornoceras.—Clarke, J. M., 7.
Tornquistes.—Douvillé, R.
Toronto (Ontario).—Baker, M. B., 2; Coleman, A. P., 5; Taylor, F. B., 2.
Torquay (Devon).—Hunt, A. R., 5; Jukes-Browne, A. J., 9.
Torquilla.—Germain, L.
Torridon Sandstone.—Peach, B. N., 3.
Toulon (Var).—Haug, E., 3; Lévy, A. M., 2.
Toulouse (Haute-Garonne).—Bergeron, J.
Tourmaline.—Canaval, R., 2; Manasse, E.; Müller, H.; Ungemach, H., 2.
—— copper veins, Japan. — Katō, T., 2.
—— ore-deposits.—Knopf, A., 3.
Tourmaliniferous rocks, Tyrol. — Granigg, B., 2.
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Toxoconcha.—Hohenstein, V.
Toxorhynchus.—Wickham, H. F.
Trachodon.—Brown, B., 5; Lambe, L. M., 2; Osborn, H. F., 2.
Trachodontidæ.—Brown, B.
Trachyaster, gen. nov. — Spencer, W. K.
Trachycardium.—Brown, A. P.
Trachyceras.—Frech, F., 2 & 5; Mansuy, H., 2 & 4.
Trachydolerite.—Hibsch, J. E., 2.
Trachydomia.—Clarke, J. M., 7; Krumbeck, L.
Trachylytoceras.—Buckman, S. S., 2.
Trachyte, Cameroons.—Henssen, W.
——, Egypt.—Ball, J.
——, Massachusetts.—Bascom, F.
——, Oki Is.—Kôzu, S.
——, Pantelleria.—Washington, H. S., 2.
——, Rhenish Prussia.—Brauns, R.
——, Sardinia.—Pullé, G.; Washington, H. S.
——, Timor.—Brouwer, H. A.
——, Transvaal.—Humphrey, W. A.
——, Victoria.—Skeats, E. W., 2.
Trails, animal. — Chapman, F., 4; Moodie, R. L.
Traliopsis.—Cossmann, A. E. M., 2.
Transbaikalia (Siberia).—Malyavkin, S. F., 3; Voznesenkii, V. A.
Transcaspian District. — Samoïlov, Y. V.
Transcaucasia.—Bonnet, P.
Transkei.—Dutoit, A. L.
Transvaal (South Africa). — Dessauer, A. von; Draper, D., 1 & 2; Horwood, C. B.; Humphrey, W. A.; Krause, H. L.; Kynaston, H.; Lotz, H.; McDonald, D. P., 1 & 2; Mellor, E. T.
Transylvania.—Andrews, C. W., 2; Gaál, S. von, 2; Pálfy, M. von; Pávai-Vajna, F. von; Reinhard, M.; Roth von Telegd, L., 4.
TRAQUAIR, R. H., *Obit.*—*See* Anon., 22; Grimshaw, P. H.; *&* Horne, J.
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Trematobolus.—Walcott, C. D.
Trematospira.—Schuchert, C., 4.
Tremolite.—Aloisi, P., 3; Lovisato, D., 2.
Tremonotus.—Gortani, M., 2.
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Trenton Falls (N. America). — Hahn, F. E., 4.
Trettach Valley (Tyrol).—Ampferer, O.
Trevi (Umbria).—Fiorentin, L.
Triadocidaris.—Bather, F. A.
Triarthrus.—Lake, P.
Trias, Alps (Southern).—Horn, M.
——, Alsace.—Van Werveke, L., 4.
——, America (N.).—Willis, B.
——, Arizona.—Gregory, H. E.

Trias, Austria.—Heinrich, A.; Koken, E.
——, Caucasus.—Vittenburg, P. V.
——, Cyclades.—Cayeux, L.; Négris, P., 2.
——, Dalmatia.—Bukowski, G. von.
——, Devon.—Ussher, W. A. E., 2.
——, Dobrudsha.—Simionescu, I., 2.
——, Dutch East Indies. — Krumbeck, L.
——, Elgin.—Huene, F. von, 2.
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——, Holland.—Molengraaff, G. A. F.
——, Hungary. — Diener, C., 1 & 2; Frech, F., 5; Kittl, E. A. L.; Laczkó, D.; Lóczy, L. von, *fil.*
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——, Spain.—Villasante, F. B.
——, Timor.—Wanner, J., 2.
——, Tongking.—Deprat, J., 2.
——, Yunnan.—Deprat, J., 4; Mansuy, H., 4.
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Triceratops.—Kiær, J.
Trichites.—Bœhm, G.
Trichoptera, Oligocene.—Ulmer, G.
Trichosporites.—Stopes, M. C. C., 6.
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Triebsch (Bohemia).—Hibsch, J. E., 2.
Triforis.—Harder, P.
Trigonia.—Bœhm, G.; Hofmann, K.; Rollier, L., 2; Orbigny, A. D. d'; Scupin, H.; Sintzov, I. T.; Steinmann, J. H. C. G. G., 4.
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Trigonodus.—Frech, F., 4.
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Trillina.—Chapman, F., 3.
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Trilobita, Ordovician.—Barton, D. C.; Branson, E. B.; Hadding, A.; Marr, J. E.; Perkins, G. H.; Postlethwaite, J.; Raymond, P. E., 4; Reed, F. R. C.
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——, Silurian.—Marr, J. E.; Pellizzari, G.; Reed, F. R. C.
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Tripoli (N. Africa).—Pervinquière, L.; Stefani, C. de, 5; Vinassa de Regny, P. E., 2.
Triton.—Bajarunass, M. W.
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Trochammina.—Bagg, R. M.; Chapman, F.
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Trochus.—Boussac, J.; Fischer, E., 2; Fœrster, B.; Schaffer, F. X.; Shvetz, F. P.; Toni, A. de; Vogl, V.
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Tromsö (Norway).—Endell, K.
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—— zones, New York.—Williams, H. S., 3.
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Tuba.—Cossmann, A. E. M.
Tubuai Is.—Marshall, P.
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——, Hesse.—Schottler, W.
——, Rhenish Prussia. — Hopmann, P. M.
——, Transylvania. — Gaál, S. von, 2; Pávai-Vajna, F. von.
——, Würtemberg.—Vosseler, H.
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——, Nova Scotia & Washington. — Hills, V. G.
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Turbo.—Boussac, J.; Clarke, J. M., 7; Dainelli, G.; Frech, F., 5; Lœwe, H.
Turbonilla. — Brown, A. P.; Harder, P.
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——, Rhenish Bavaria.—Bœhm, J., 2.
——, Silesia.—Scupin, H.
Turris.—Dickerson, R. E.
Turritella.—Boussac, J.; Cerulli-Irelli, S.; Cossmann, A. E. M.; Dainelli, G.; Dickerson, R. E.; Jenkins, O. P.; Kittl, E. A. L., 2; Ravn, J. P. J.; Schaffer, F. X.; Scupin, H.; Sokolov, D. N., 3; Vincent, E.; Vogl, V.
Tuscany (Italy). — Campana, D. del, 1 & 2; Fucini, A., 1 & 2; Martelli, A., 3; Toso, P.; Trabucco, G.
Tux Alps (Tyrol).—Hartmann, E.
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Tylaster, subgen. nov. — Spencer, W. K.
Tylodendron.—Weiss, F. E.
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Tysonite.—Köchlin, R.

Ubaye (Basses Alpes).—Haug, E.
Uckermark (Germany). — Bœhm, J., 2.
Uddevalla (Sweden).—Geer, G. de, 5.
Ueberlingen (Baden).—Schmidle, W.
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Uralian, Indo-China.—Mansuy, H., 3.
Uralite-rocks, Albania.—Nopcsa, F.
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——, U.S.A.—Blair, A. A.
——, geological time &.—Lawson, R. W.
Uranium-minerals.—Lacroix, A. F. A., 3; Henglein, M.
Urgonian, France.—Kilian, C. C. W., 2.
——, German E. Africa.—Hennig, E., 6.
Uri (Switzerland).—Ranfaldi, F.; Staub, W.; Ploeg, F. P. C. S. van der; Zyndel, F., 2.
Uriûm R. (Amur).—Makerov, Y. A.
Urmiah, Lake (Persia).—Brouard, C. A.
Urosalpinx.—Cossman, A. E. M., 2.
Ursus.—Newton, E. T.
Uruguay.—Walther, K.
Usedom I. (Pomerania).—Jentzsch, C. A.
Usk (Monmouthshire).—Gardiner, C. I.
Ussher, R. J., *Obit.—See* Barrington, R. M.
Ussoia R. district (Siberia).—Demin, A., 1 & 2.
Usu-San (Japan).—Omori, F., 3.
Utah (U.S.A.).—Blair, A. A.; Butler, B. S., 1 & 2; Boutwell, J. M.; Clarke, F. W.; Hillebrand, W. F., 1–3; Lawson, A. C., 2; Lindgren, W.; Loughlin, G. F.; Richardson, G. B.; Riggs, E. S.
Utö (Sweden).—Tegengren, F. R.
Utsire I.—Reusch, H., 6.
Uvigerina.—Bagg, R. M.
Uxia.—Cossmann, A. E. M., 2.

Vaginella.—Harder, P.
Vaginulina.—Bagg, R. M.
Valais (Switzerland).—Lugeon, M.
Valchiusella (Piedmont).—Colomba, L.
Val d'Ema (Tuscany).—Martelli, A., 3.
Val Malenco (Lombardy).—Magistretti, L.
Valdez (Alaska).—Brooks, A. H., 2.
Valenciennes (Nord).—Gosselet, J. A. A., 3.
Valentinite.—Ungemach, H., 4.
Vallåkra (Sweden).—Trœdsson, G.
Valletia.—Hofmann, K.
Valleys, Norway.—Landmark, J. D.; Monckton, H. W., 2.
——, Suffolk.—Boswell, P. G. H.
——, Turkestan.—Machatschek, F.
——, Victoria.—Hart, T. S.
——, Yukon.—Cairnes, D. D.
—— (buried), Pennsylvania.—Darton, N. H.
——, formation of.—Gregory, J. W.; Ludwig, A.
——, glaciation of.—Bowman, I.
Valona (Albania).—Martelli, A.
Valsecca (Lombardy).—Tommasi, A.
Valvatina.—Cossmann, A. E. M., 2.
Vanadiferous ægirite.—Larsen, E. S.
Vanadium, U.S.A.—Blair, A. A.; Lindgren, W.
—— minerals.—Hillebrand, W. F., 3.
Van Calker, F. J. P., *Obit.—See* Wahnschaffe, F., 2.
Vancouver (B.C.).—Camsell, C.; Clapp, C. H., 1 & 3; McConnell, R. G.
Van Rhyn's Dorp (Cape Province).—Rogers, A. W.
Var (France).—Caziot, E., 2; Haug, E., 3–5; Lanquine, A., 1 & 2; Lévy, A. M., 2; Repelin, J., 3.
Variolites.—Tyrrell, G. W., 4.
Varve-clay, Sweden.—Geer, G. de.
Vascoceras.—Douvillé, H., 2.
Vasconella.—Boussac, J.
Vaskö-Dográcska (Hungary).—Liffa, A.
Veatchia.—Maury, C. J.
Vedana (Belluno).—Toni, A. de.
Veins, Argentera Mts.—Sacco, F., 2.
——, Mexico.—Wentworth, I. H.
——, Ontario.—Tyrrell, J. B.
——, Transvaal.—Dessauer, A. von.
——, formation of artificial.—Kemp, J. F., 4.
——, local enrichment in.—Collins, G. E.
Vein-stones, Tyrol.—Hradil, G.
Veitsch (Styria).—Redlich, K. A.
Vejtestrands Lake (Norway).—Monckton, H. W.
Velebit (Croatia).—Koch, F.
Velence Mts. (Hungary).—Vendl, A., 3.
Velpke (Brunswick).—Speyer, C., 2.
Vendée (France).—Baudouin, M.; Bellanger, E.; Bocquier, E.; Villain, P.
Venediger Glaciers (Tyrol).—Dœhler, K.
Venericardia.—Harder, P.; Maury, C. J.; Suter, H.; Vincent, E.
Venetia (Italy).—Billows, E.; Dainelli, G., 1–3; Fabiani, R.; Franceschi, D.; Gortani, M., 4; Moderni, P.; Oppenheim, P., 3.
Venezuela.—Guppy, R. J. L., 2.
Venilicardia.—Scupin, H.
Vente Farine (Aude).—Doncieux, L., 3.
Ventersdorp diabase.—Horwood, C. B.
Ventricola.—Newton, R. B.
Ventriculites.—Scupin, H.
Venus.—Boussac, J.; Scupin, H.; Shvetz, F. P.
Vequée, Bois de la (Liége).—Malaise, C., 2.
Verd Is., Cape (N.W. Africa).—Costa e Andrade, A. da.
Verespatak (Hungary).—Lázár, B.
Verkhnéuralsk (Ural Mts.).—Perna, E.
Vermetus.—Boussac, J.; Cerulli-Irelli, S.; Cossmann, A. E. M.; Harder, P.; Vincent, E.
Vermicularia.—Cossmann, A. E. M.
Vermilion Cliff sandstone, Utah.—Lawson, A. C., 2.

Vermont (U.S.A.). — Baker, E. R.; Dale, T. N., 1 & 2; Hitchcock, C. H.; Hudson, G. H.; Perkins, G. H., 1 & 2; Richardson, C. H., 1 & 2; *see also* VERMONT, Rep. State Geol.

Verruca.—Withers, T. H.

Verrucano.—Fucini, A.

Vertebrata, morphology of skull of.—Gregory, W. K., 1 & 2.

——. *See also* Mammalia, Pisces, Reptilia, *&c.*

Vertebrate palæontology, South African. Broom, R.

Vertigo.—Cossmann, A. E. M., 2.

Vesuvius (Italy).—Cuccia, L.; Mercalli, G.; Panebianco, R.; Starrabba, F. S.

Veszprém (Hungary).—Laczkó, D.

Veta Rica Mine (Mexico).—Van Horn, F. R., 1 & 2.

Vetacapsula.—Goode, R. H.

Vicarya.—Cossmann, A. E. M.

Vicenza (Venetia).—Billows, E.

Vicoigne (Nord).—Pruvost, P.

Vie R. (Vendée).—Bocquier, E.

Vienna (Austria). — Jäger, R.; Toula, F., 2.

Victoria.—Chapman, F., 2, 3, 5–7; Hart, T. S.; Howitt, A. M.; Hunter, S.; Junner, N. R.; Jutson, J. T., 1 & 2; Maplestone, C. M.; Pritchard, G. B.; Skeats, E. W., 1 & 2; *see also* VICTORIA, Dep. Mines.

Victoria Nyanza.—Oswald, F.

Vigny (Seine-et-Oise).—Dollfus, G. F., 10.

Villabella Cave (Tarragona).—Bertrand i Cavaller, F.

Villány Mts. (Hungary).— Lóczy, L. von, *fil.*

Villedar (Morbihan).—Tronquoy, R.

Villeréal (Lot-et-Garonne). — Dalloni, M., 4; Repelin, J.

Villers (Calvados).—Lecureur, A.

Vinodol (Croatia).—Vogl, V.

Virdilio (Sicily).—Cimono, E.

Virgatites.—Sauvage, H. E.

Virginia (U.S.A.). — Lindgren, W.; Watson, T. L., 2; White, D., 4.

Virginia Water (Surrey).—Bromehead, C. E. N.

Virgulina.—Chapman, F.; Schmidle, W.

Virtuous Lady Mine (Devon).—Russell, A.

Vishnuper meteorite.—Cotter, G. de P.

Vistula-Oder watershed.—Götzinger, G., 3; Kuzniar, W.

Vitoxylon.—Nathorst, A. G., 2.

Vitrina.—Cossmann, A. E. M., 2.

Vitrival (Hainault).—Lassine, A.; Malaise, C., 3.

Vitulina.—Prosser, C. S., 4.

Viù Valley (Piedmont). — Schürmann, E., 2.

Vivianite.—Buttgenbach, H., 2 & 3; Dittus, W.

Vizille (Isère).—Lory, P.

Vœlckerite.—Rogers, A. F., 5.

Vogesite.—Umpleby, J. B.

Vola.—Scupin, H.

Volborthia.—Walcott, C. D.

Volcanic ash, Caucasus. — Gherasimov, A. P.; Rengharten, W. P.

Volcanic bombs.—*See* Australites.

Volcanic districts of Central Europe.—Täubner, A.

Volcanic 'floating islands.'—Perret, F. A., 2.

Volcanic phenomena, experiment in.—Paulcke, W.

Volcanic rocks, Auvergne. — Glangeaud, P., 7.

—— ——, Cape Province.—Du Toit, A. L.

—— ——, Forfarshire.—Jowett, A.

—— ——, Iceland.—Pjeturss, H.

—— ——, Madeira.—Gagel, C., 3.

—— ——, New York.—Cushing, H. P.

—— ——, Pacific.—Marshall, P.

—— ——, Pantelleria. — Washington, H. S., 2.

—— ——, Sardinia. — Washington, H. S.

—— ——, denudation of. — Fenton, E. G.

—— ——, formation of prisms in.—Glangeaud, P., 5.

—— ——, poikilitic structure in.—Geijer, P.

Volcanic tuff, economic uses. — Cox, A. J., 2.

Volcanoes.—Hœl, A.; Schneider, K.

——, America (Central).—Sapper, K.

——, Asia Minor.—Philippson, A., 2.

——, Auvergne.—Glangeaud, P., 1 & 3.

——, Chile.—Vogel, M.

——, Etna.—Fiore, O. de; Friedländer, I., 4; Ponte, G.

——, Japan.—Davison, C.; Friedländer, I., 4; Katō, T.

——, Kilauea.—Brun, A., 3; Curtis, G. C.; Perret, F. A., 1–6 & 8–10.

——, Samoa.—Anderson, T.

——, Sicily.—Sieberg, A.

——, Spitsbergen.—Hœl, A., 2.

——, Stromboli. — Perret, F. A., 10; Platania, G.

——, Timor.—Adams, G. I.

——, Vesuvius.—Mercalli, G.

——, ascent of lava in.—Perret, F. A., 6.

——, climate &.—Abbot, C. G.

——, structure of.—Günther, S.

——, submarine.—Wolff, F. von.

——, water & gases of.—Day, A. L., 3.

——. *See also* Lava, Mud-volcanoes, *&* Vulcanology.

Voluta.—Boussac, J.; Dickerson, R. E.; Newton, R. B.; Pritchard, G. B., 2; Scupin, H.

Volutilithes.—Dainelli, G.; Maury, C. J.; Scupin, H.

Volvulella.—Brown, A. P.; Cossmann, A. E. M., 2.

Vorarlberg (Austria).—Mylius, H., 1 & 2.

Vosges (France).—Fournier, E., 2.

Vouastia.—Cossmann, A. E. M., 2.
Vulcanicity.—Rimbach, C.
——, Æolian Is.—Stefani, C. de.
Vulcanism.—Wolff, F. von.
Vulcano I. (Lipari).—Panichi, U.
Vulcanological Institute, International.—Friedländer, I., 1–3.
Vulcanology.—Branca, W., 2.
——. *See also* Volcanoes.
Vulgocerithium.—Dollfus, G. F.
Vurpód (Hungary).—Halaváts, G. von, 2.

Waagenia.—Fischer, E., 2.
Waddon (Surrey).—Kidner, H., 2.
Wagon-Wheel Gap (Colorado).—Emmons, W. H., 4.
Waihi (N.Z.).—Bell, J. M.; Lett, S. J.
Walbeck (Saxony).—Kirschmann, W.
Waldeck (Germany).—Boden, K.
Waldheimia.—Frech, F., 4; Schöndorf, F., 3; Vogl, V.
Wales (North).—Jackson, J. W.
Wallis Alps (Switzerland).—Staff, H. von, 2.
Walton-on-Naze (Essex).—Bell, A., 2.
Wang Marls.—Rollier, L.
Waukie Coalfield (Rhodesia).—Thompson, A. R.
Wanneria.—Walcott, C. D., 2.
Ward, L. F., *Obit.*—*See* Anon., 23; *&* Hollick, A., 2.
'Warrens.'—Bennett, F. J.
Warscheneck Mts. (Styria).—Geyer, G., 1 & 3.
Warton Crag (Lancs).—Jackson, J. W., 2.
Warwickshire.—Auden, G. A.; Lapworth, C.; Strahan, A.
Wasatch Mts. (Utah).—Loughlin, G. F.
Washington (U.S.A.).—Hills, V. G.; O'Donnell, G.; Waring, G. A.; Weaver, C. E., 1 & 2.
—— Co. (Maine).—Williams, H. S.
Washington, Mt. (New Hampshire).—Goldthwait, J. W.
Wasserberg (Switzerland).—Hauswirth, W.
Water, Australia.—*See* Australia, Interstate Conference.
——, Auvergne.—Glangeaud, P., 4.
——, Baden.—Thürach, H.
——, Belgium.—Halet, F.
——, Bohemia.—Hibsch, J. E.; Petrascheck, W.
——, California.—Lee, C. H.
——, Croatian Karsts.—Terzaghi, K. von.
——, Devon.—Ussher, W. A. E., 1 & 2.
——, Egypt.—Ball, J.
——, France.—Fournier, E., 2.
——, German S.W. Africa.—Range, P.; Rimann, E.
——, Gloucestershire.—Richardson, L.
——, Hampshire.—Arnaud, F. W. F.
——, Hesse.—Steuer, A.
——, Iowa.—Norton, W. H., 1 & 2.
Water, Jura Mts.—Fournier, E.
——, London Area.—*See* London, Metropolitan Water Board.
——, —— Basin.—Barrow, G., 4.
——, Lorraine.—Van Werveke, L.
——, Mecklenburg.—Keilhack, K., 2.
——, Mexico.—Oropesa, G. M.; Villafaña, A.
——, Ohio.—Muller, M. L.
——, Paris Basin.—Mary, A., 2.
——, Po Valley.—Sacco, F., 6.
——, Rhenish Prussia.—Klein, W. C.
——, Rhine Valley.—Bärtling, R.
——, Russia.—Oppokov, E. B.
——, Schleswig-Holstein.—Gagel, C., 7.
——, South Africa.—Du Toit, A. L., 3.
——, South Australia.—*See* South Australia, Geol. Survey.
——, Texas.—Gordon, C. H.
——, Tunis.—Roux, H.
——, Washington.—Waring, G. A.
——, Worcestershire.—Duncan, C. C.
——, action of underground.—Fliegel, G., 2; Principi, P., 4.
——, circulation of underground.—Dollfus, G. F., 5 & 7; Keilhack, K., 3.
——, cultivation of cotton &.—*See* Egypt, Ministry of Finance.
——, sulphur in.—Hackl, O.
——, temperature of underground.—Dienert, F.; Martel, E. A.
——, tidal phenomena in inland boreholes.—Young, A.
——, underground.—Halbfass, W.
——. *See also* River-water & Surface-water.
Water-supply.—Johnson, G. A.; Latham, B.
—— ——, land classification &.—Heroy, W. B.
Watford (Herts).—Kidner, H.
Waukaringa (South Australia).—Duffield, C. F.
Wave-action, New Zealand.—Speight, R., 2.
Wavellite.—Ungemach, H., 3.
Waves, action of.—Andrews, E. C., 2.
Waxholm (Sweden).—Holmquist, P. J., 2.
Wealden, Santander.—Mengaud, L.
——, Tuscany.—Fucini, A., 2.
——, flora of.—Seward, A. C., 4.
Weathering, Hanover.—Albrecht, H.
——, Hesse.—Klemm, G., 2.
——, Minas Geraes.—Hatch, F. H.
——, deep-seated.—Fliegel, G., 2.
——, granite.—Branner, J. C., 3; Wagner, P. A., 2.
——, marble.—Dale, T. N.
——, mechanical.—Lozinski, W. von.
——, red clay as product of Interglacial.—Baren, J. van.
——, slate.—Baker, E. R.
Wehr (Baden).—Neumann, R.

Weidenau (Silesia).—Götzinger, G., 2.
Weihenstephan (Bavaria).—Köhne, W.
Weiler (Black Forest).—Henglein, M.
Weimar (Germany).—Menzel, H., 3.
Weissenstein Mts. (Switzerland). — Gerth, H., 2.
Wellenkalk, Breisgau.—Stierlin, K., 2.
——, Rhön Mts.—Meyer, H. L. F.
Wells, Belgium.—Halet, F., 3.
——, Detroit.—Fry, W. H., 3.
——, Devon.—Carus-Wilson, C., 2.
——, Iowa.—Norton, W. H.
——, London Basin.—Barrow, G., 4.
——, Michigan.—Fry, W. H., 2 & 3.
——, Ohio.—Muller, M. L.; Norton, W. H., 2; Prosser, C. S.
——, Pennsylvania.—White, I. C., 2.
——, Po Valley.—Sacco, F., 6.
——, Somerset.—Winwood, H. H.
——, Texas.—Gordon, C. H.
——. *See also* Borings.
Wengen Beds.—Frech, F., 2.
Werfen Beds.—Arthaber, G. von; Bukowski, G. von; Frech, F., 5.
WERNER & HUTTON'S theories.—Sederholm, J. J., 5.
Werra Valley (Thuringia).—Naumann, E.
Weser Valley (Germany).—Grupe, O.; Siegert, L., 2.
Weser district (Hanover).—Lœwe, F.
West Africa.—Arsandaux, H.
West Elk Mts. (Colorado). — Lee, W. T.
West Indies.—Maury, C. J.
Westerwald (Hesse Nassau). — Endell, K., 2.
Western Australia. — Blatchford, T.; Farquharson, R. A.; Maitland, A. G., 1 & 2; Newall, R. S.; Talbot, H. W. B.; Thomson, J. A.; Woodward, H. P., 1 & 2; *see also* WESTERN AUSTRALIA.
—— ——, artesian water.—*See* AUSTRALIA, Interstate Conference.
Westonia.—Walcott, C. D.
Westphalia (Germany). — Fuchs, A.; Hirzebruch, F.; Krusch, P., 3; Kukuk, P.; Mügge, O., 3; Wegner, T., 1 & 2; Zimmermann, E.
Wetterau (Hesse). — Kinkelin, F., 2; Schottler, W.
Wetterstein Mts. (Bavaria).—Schlagintweit, O.
Wheaton (Illinois).—Trowbridge, A. C.
Wheaton district (Yukon).—Cairnes, D. D.
Whin Sill, Northumberland.—Weyman, G.
Whinnyboles.—Smellie, W. R.
Whitbyiceras.—Buckman, S. S., 2.
White River Formation.—Winchester, D. E.
White Top Rock.—Smellie, W. R.
WHITEHEAD, Sir CHARLES, *Obit*.—*See* Strahan, A., 3.
Whitfieldella.—Schuchert, C., 4.
Whittleseya.—Thomas, H. Hamshaw.
Wichita Beds, Texas.—Udden, J. A., 2.
Wichita region (Texas).—Gordon, C. H.
Widdringtonites.—Zeiller, R.
Wielandiella.—Nathorst, A. G., 9.
Wielun (Poland).—Rehbinder, B. von.
Wight, I. of.—Hooley, R. W.
Wildbad (Würtemberg). — Regelmann, K.; Weizsäcker, T.
Wildom (Styria).—Dreger, J.
Willemite.—Palache, C.
Williamsonia.—Halle, T. G., 3; Krasser, F.; Nathorst, A. G., 2; Seward, A. C., 2 & 3; Thomas, H. Hamshaw, 2.
Willington (Beds).—Banton, J. T.
Wilsonia.—Schuchert, C., 4.
Wiltshire.—White, H. J. O.
Wimanella.—Walcott, C. D.
Wimbledon (Surrey).—Johnson, W.
Winchester (Hants).— White, H. J. O.
Wind, denudation by.—Harger, H. S., 2.
——, petroleum-deposits & influence of.—Branner, J. C., 2.
Wind-erosion.—Steenstrup, K. J. V.
Wind River Mts. (Wyoming).—Westgate, L. G.
Windsor Series.—Bell, W. A.; Young, G. A.
Winnipeg (Manitoba).—Collins, W. H., 3; Dowling, D. B., 2 & 4; Maclean, A., 2; Uglow, W. L.
Wisby (Gothland).—Munthe, H.
Wisconsin (U.S.A.).—Bagg, R. M., 2.
Witchellia Beds.—Lanquine, A., 2.
Witim R. district (Siberia).—Demin, A., 2; Meister, A.
Witley Colliery (Worcester).—Kay, H.
Wittekrantz meteorite.—Prior, G. T.
Wittelsheim (Alsace).—Görgey, R.
Witwatersrand (Transvaal). — Krause, H. E.; Mellor, E. T.; Sawyer, A. R.
Wölsenberg (Bavaria).—Laubmann, H.
Woensdrecht Boring (North Brabant).—Tesch, P.
Wörnitz Valley (Germany).—Reck, H.
Wolfram, Northern Territory of Australia.—Woolnough, W. G.
Wolframite, Burma. — Bleeck, A. W. G.
——, German S.W. Africa.—Range, P.; Rimann, E.
Wolkonskoite.—Angel, F.
Wollastonite.—Ruesberg, F. W.
Wollin I. (Pomerania). — Jentzsch, C. A.
Wood, Carboniferous petrified. — Kay, H.
Wood Bay (Spitsbergen).—Hœl, A., 2.
Woodbridge Hill Seismograph Station. —*See* Norris, F. E.
Woodendite.—Skeats, E. W., 2.
WOODWARD, ELLEN S., *Obit*. — *See* Anon., 24.
Worcestershire.—Duncan, C. C.; Kay, H.; Lapworth, C.; Spackman, F. T.; Strahan, A.

World, geological map of. — Ahlburg, J.
Worms.—*See* Annelida.
Worthenia.—Hohenstein, V.; Kittl, E. A. L., 2; Mansuy, H., 4; Mark, C. G.
Wretham Heath (Norfolk).—Marr, J. E., 3,
Würtemberg (Germany).—Fischer, E.; Hohenstein, V.; Jooss, C. H., 2; Löffler, R.; Regelmann, K.; Vosseler, H.; Wagner, G., 3; Weigelin, M., 2; Weizsäcker, T.
Wutach R. (Baden). — Bubnoff, S. von, 2.
Wutach Valley (Baden).—Spiegelhalter, F.
Wynnia.—Walcott, C. D.
Wynyard district (Tasmania). — Hills, L.
Wyoming (U.S.A.).—Blackwelder, E., 2; Chautard, J.; Gilmore, C. W.; Lambe, L. M.; Lindgren, W.; Mehl, M. G.; Sinclair, W. J.; Westgate, L. G.

X-rays, crystal structure &.—Friedrich, W.; Wulff, G., 1 & 2.
Xanthokon.—Bücking, K., 2.
Xenacanthus.—Reis, O. M., 2.
Xenoliths, Massachusetts.—Warren, C. H.
——, Stellenbosch granite. — Shand, S. J.
Xenophora.—Schaffer, F. X.
Xestoleberis.—Méhes, G.
Xylopsaronius.—Pohlig, H., 2.

Yakuōji Mine (Japan).—Kato, T., 2.
Yalavis, gen. nov.—Shufeldt, R. W., 2.
Yangtse R. (China).—Ward, F. K.
Yellowstone Park.—Chaix, A., 4.
Yelta Mine (South Australia). — Matthews, A. W.
Yeniseisk Gov. (Siberia).—Boreisha, V.; Edelstein, Y. S., 1–4; Stalnov, G. A., 1–3.
Yentna district (Alaska).—Brooks, A. H., 2; Capps, S. R., 2.
Yilgarn Goldfield (Western Australia).—Woodward, H. P.
Yoldia.—Bjœrlykke, K. O., 3; Harder, P.
Yong Choon (China).—Scrivenor, J. B., 2.
Yonne (France).—Jodot, P.
Yoredale Beds.—Bather, F. A., 3.
Yorkia.—Walcott, C. D.
Yorkshire.—Bather, F. A., 3; Buckman, S. S., 1 & 2; Burrell, B. A.; Chatwin, C. P.; Elgee, F.; Gibson, W.; Gilligan, A.; Halle, T. G., 2; Kendall, P. F.; Marr, J. E.; Sheppard, T., 1 & 2; Smith, S.; Strahan, A.; Thomas, H. Hamshaw, 2–5; Thompson, C.
Yosemite Valley (California).—Walter, M.
Ypresian.—Cornet, J., 4; Leriche, M., 5.
Yttrium.—James, C.
Yucatan (Mexico).—Shufeldt, R. W.
Yukon (Canada). — Cairnes, D. D., 1, 3, & 4; McConnell, R. G.; Tyrrell, J. B., 5.
Yukonite, new mineral.—Tyrrell, J. B., 5.
Yunnan (China).—Deprat, J., 4 & 5; Mansuy, H., 4; Ward, F. K.
Yunnania, gen. nov.—Mansuy, H., 4.

Zaa Valley (Morocco). — Douvillé, R., 6.
Zacatecas (Mexico).—Villafaña, A.
Zambesi R. (Africa). — Spencer, J. W. W., 5.
Zambesia (Africa).—Gothan, W.; Wagner, P. A.
Zamensis.—Campana, D. del, 3.
Zamites.—Halle, T. G., 3; Thomas, H. Hamshaw, 2.
Zaphrentis.—Clarke, J. M., 7; Swartz, C. K., 2.
Zavitaïa Basin (Siberia). — Malyavkin, S. F., 2.
Zechstein, Germany.—Meyer, H. L. F., 2; Naumann, M.; Ruebenstrunk, —; Zimmermann, E., 2.
Zéia R. (Amur). — Anert, E. E., 2; Malyavkin, S, F.; Yavorovskii, P. K.; Zvyerov, V., 1 & 2.
Zeilleria.—Gothan, W., 2; Richardson, L., 3; Schöndorf, F., 3.
Zeolites, Russia.—Chirvinskii, P. N., 5; Rinne, F.; Rosický, V.; Schreiter, R.
Zeuglodon.—Gidley, J. W.
Zinc, Canada.—*See* Canada, Dep. of Mines, 3.
——, Carinthia.—Kraus, M.
——, Colorado.—Butler, G. M.
——, Savoy.—Kilian, C. C. W., 6.
——, Silesia.—Schulz, E.
Zinc-blende, Alsace.—Dürrfeld, V.
—— ——, Saxony.—Andrée, K.
Zinc, oxides & sulphides of. — Mixter, W. G.
Zinc-sulphides, Utah.—Butler, B. S.
Zipa R. district (Siberia).—Demin, A., 2.
Zipikan R. district (Siberia). — Demin, A.
Zircon.—Buttgenbach, H., 3 & 5.
Zirconiferous sandstone, Virginia. — Lindgren, W.
Zirkel, F., *Obit.* — *See* Anon., 25; Teall, J. J. H., 2; Wahnschaffe, F.; Wichmann, A., 3.
Zirkelite.—Blake, G. S.
Zofingen (Aargau).—Niggli, P., 3.
Zoisite.—Schetelig, J.
Zoisite-amphibolite.—Berg, G.

Zonaria.—Schaffer, F. X.
'Zone bocaine' (Cotentin).—Bigot, A.
Zones.—*See* Recurrent faunas.
Zonites.—Cossmann, A. E. M., 2.
Zua.—Cossmann, A. E. M., 2; Germain, L.
Zumoffenia.—Fourtau, R.
Zuurbekom (Transvaal). — Draper, D., 2.
Zwartkops (Cape Province).—Smith, G. W.
Zygospira.—Reed, F. R. C.

CORRIGENDA.

In the Authors' List.

For	Bonnescu	*read*	Bonnesen.
	Cambrier		Cambier.
	Jakoba, W.,		Jakob, A.
	Klähn, G.,		Klähn, H.
	Marsburga		Marsburg.
	Montis, M. de,		Montis, H. de.
	Resch		Reoch.
	Traquair, R. A.,		Traquair, R. H.
	Dohn		Dohm.
	Dubnoff		Bubnoff.

The entries under Chaix should run Chaix, A., and Chaix, E., 1–4; *not* Chaix, A., 1–5.

Pereira Gamba, F., and Gamba, F. P., entered separately in the List of Authors, refer to the same writer.

Subject-Index.

The following papers, not being purely geological, have not been included in the subject-index:—Blackett; Brand, H.; Crampton; Dubus (1); Embrey; Fuller, J. P.; Macco; Mirus; Pieper, W., 2; Smith, H. G.

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List of Abbreviations.

Aarb.	Aarbog.
Aarsb.	Aarsberetning.
Abh.	Abhandlung.
Abs.	Abstract.
Acad.	Academia, Académie, Academy.
Accad.	Accademia.
Adv.	Advancement.
Afr.	Africa.
Agric.	Agricoltura, Agricultural.
Akad.	Akademie.
Am.	America. American.
An.	Anales, Anuario.
Ann.	Annalen, Annales, Annali, Annals, Annual.
Anst.	Anstalt.
Anthrop.	Anthropological.
Antiq.	Antiquarian, Antiquaries.
Anz.	Anzeiger.
Arch.	Archives.
Argent.	Argentina.
Ark.	Arkiv.
Art.	Article.
Asiat.	Asiatic.
Assoc.	Association.
Austr.	Australia.
Austral.	Australasia.
Av.	Avancement.
Bayer.	Bayerisch.
B.-B.	Beilage-Band.
B.C.	British Columbia.
Beitr.	Beitrag, Beiträge.
Belg.	Belgique.
Ber.	Bericht.
Bibl.	Bibliographie.
Bol.	Boletín.
Boll.	Bollettino.
Bot.	Botanik, botanisch, Botany.
Brit.	British.
Brux.	Bruxelles.
Bull.	Bulletin.
Bur.	Bureau.
Calif.	California.
Centralbl.	Centralblatt.
Chem.	Chemical.
Cienc.	Ciencias.
cient.	científica.
Coll.	Collection, College, Colliery.
Com.	Comitato, Comité.
Comm.	Commission.
Comunic.	Comunicações.
Comp.	Comparative.
Conch.	Conchyliologie.
Congr.	Congrès, Congress.
Conserv.	Conservation.
C.-R.	Compte-Rendu.
Crist.	Cristallografia.
Danm.	Danmarks.
Delfstoff.	Delfstoffen.
Denkschr.	Denkschriften.
Dep.	Department.
E.	East.
E. & W.	England & Wales.
Earthq.	Earthquake.
Econ.	Economic.
Edinb.	Edinburgh.
Elsass-Lothr.	Elsass-Lothringen.
Eng.	Engineers, Engineering.
Erdk.	Erdkunde.
Erforsch.	Erforschung.
Ergänzungsh.	Ergänzungsheft.
Ergebn.	Ergebniss.
Erläut.	Erläuterung.
Exped.	Expedition.
f.	för, für.
F.-C.	Field-Club.
Földt.	Földtani.
Fören.	Förening.
Förh.	Förhandling.
Fortschr.	Fortschritte.
Franç.	Français.
Fribourg.	Fribourgeoise.

Geogn.	Geognostisch.
Geogr.	Geografia, Geographical, Geography, geographisch.
Géogr.	Géographie.
Geol.	Geologicæ, Geological geológico, geologisch, geologisk, Geologists', Geology.
Géol.	Géologie, géologique.
Geophys.	Geophysik.
Geotechn.	Geotechnisch.
Gesellsch.	Gesellschaft.
Glac.	Glacialogico.
Gletscherk.	Gletscherkunde.
Govt.	Government.
Gr. Br.	Great Britain.
Guard.	Guardian.
Handb.	Handbuch.
Handl.	Handlingar.
Helv.	Helvetiæ.
Hist.	Histoire, History.
hütt.	hüttenmännisch.
Hüttenw.	Hüttenwesen.
Idrogr.	Idrografico.
Imp.	Imperial, Impériale.
Ind.	Industrial, Industries.
Ing.	Ingenieros.
Inst.	Institute, Institution, Instituto.
Intern.	International.
Ist.	Istituto.
Ital.	Italia, italiano, italico.
Jaarb.	Jaarboek.
Jaarversl.	Jaarverslag.
Jahrb.	Jahrbuch.
Jahresb.	Jahresbericht.
Jahresh.	Jahresheft.
Journ.	Journal.
k.	kaiserlich, königlich, kongelig.
Komm.	Kommission.
Közl.	Közlöny.
Kryst.	Kristallographie.
Lab.	Laboratoire.
Landesanst.	Landesanstalt.
Leop.-Car.	Leopoldinisch-Carolinisch.
Linn.	Linnean, Linnéenne.
Lit.	Literary.
Lomb.	Lombardo.
Mag.	Magazine.
Magistr.	Magistrato.
Malac.	Malacological, Malacologique.
Manch.	Manchester.
Matér.	Matériaux.
M.E.	Mining Engineers.
M. & M.	Mining & Metallurgy.
Mech.	Mechanical.

Méd.	Médicale.
Meddel.	Meddelelser.
Mededeel.	Mededeeling.
Mem.	Memoirs, Memorias.
Mém.	Mémoires.
Micr.	Microscopical.
Mijnw.	Mijnwezen.
Min.	Mineral, Mineralogi, Mineralogie, Mineralogical, mineralogico, minéralogique, mineralogisch, Mineralogy.
Mindeskr.	Mindeskrift.
Misc.	Miscellaneous.
Mitt.	Mitteilung.
Monatsb.	Monatsbericht.
Monogr.	Monograph, Monographia, Monographie.
Mus.	Musée, Museo, Museu, Museum, Muséum.
N.	North.
nac.	nacional.
Nat.	National, Natural, naturelle, naturali, Naturalist.
Naturf.	Naturforscher, naturforschend.
Naturh.	Naturhistorisch.
Naturk.	Naturkunde.
Naturw.	Naturwissenschaft.
Ned. O.-Ind.	Nederlandsch Oost-Indië.
N.J.	New Jersey.
Norm.	Normandie.
Notizbl.	Notizblatt.
nouv.	nouvelle.
N.S.	Nova Scotia.
N.S.W.	New South Wales.
N.Y.	New York.
N.Z.	New Zealand.
Obs.	Observatory.
Occ.	Occasional.
ökonom.	ökonomisch.
Op.	Operations.
Overs.	Oversigt.
Palæontogr.	Palæontographia, Palæontographical.
Palæont.	Palæontologia, Palæontological.
Paléont.	Paléontologie.
Paléozool.	Paléozoologie.
Peterm.	Petermanns.
Petr.	Petrographie, petrographisch.
Phil.	Philosophical.
Philad.	Philadelphia.
Phys.	Physical, Physique.
physik.	physikalisch.
prakt.	praktisch.
Prehist.	Prehistoric.
Preuss.	Preussisch.
Proc.	Proceedings.
Proc.-verb.	Procès-verbaux, Processi-verbali.

Prof.	Professional.
Progr.	Progress.
Pubbl.	Pubblicazione.
Publ.	Publication.
Quart.	Quarterly.
Queensl.	Queensland.
R.	Real.
Rec.	Records.
Reg.	Regional.
Reichsanst.	Reichsanstalt.
Rendic.	Rendiconti.
Rep.	Report.
Res.	Resources.
Rev.	Review, Revista, Revue.
Rheinl.	Rheinland.
Rijksop.	Rijksopsporing.
Riv.	Rivista.
Roy.	Royal.
Rundsch.	Rundschau.
S.	South.
Salinenw.	Salinenwesen.
Samml.	Sammlung.
Schr.	Schrift.
Schwed.	Schwedisch.
Schweiz.	Schweizerisch.
Sci.	Science, Scientific, scientifique, Scienze.
Scot.	Scottish.
Secr.	Secretary.
Sect.	Section.
Seism.	Seismological.
Selsk.	Selskab.
Senckenberg.	Senckenbergisch.
Serv.	Service, Serviço.
Siebenbürg.	Siebenbürgisch.
Sitz.	Sitzungsbericht.
Skrift.	Skrifter.
Smithson.	Smithsonian,
Soc.	Sociedad, Società, Société, Society.
Staatsanst.	Staatsanstalt.
Stockh.	Stockholm.
Summ.	Summary.
Surv.	Survey.
Sver.	Sverige.
Techn.	Technologists.
Tidsskr.	Tidsskrift.
Tosc.	Toscana.
Trans.	Transactions.
u.	und.
Uff.	Ufficio.
Undersög.	Undersögelse.
Undersök.	Undersökelse.
Undersökn.	Undersökning.
ung.	ungarisch.
Univ.	Università, Université, University.
U.S.	United States.
Vaud.	Vaudois.
Ver.	Verein.
Verh.	Verhandlung.
Vet.-Akad.	Vetenskaps-Akademie.
Vidensk.	Videnskaberne.
W.	Western.
Wissensch.	Wissenschaft, wissenschaftlich.
Yorks.	Yorkshire.
Zeitschr.	Zeitschrift.
Zentralbl.	Zentralblatt
Zool.	Zoological, Zoology.

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Acanthocladia.—Mansuy, H., 2.
Acaste.—Groth, J.
Acer.—Kristofovič, A.
Aceratherium.—Borissiak, A.; Pilgrim, G. E.
Acervularia Limestone.—Delhaye, F.
Achatina.—Oswald, F.
Acheulian, Germany.—Wiegers, F., 2.
——, Vendée.—Baudouin, M., 2.
Achtiaria.—Borissiak, A.
Acicularia.—Morellet, L.
Acidaspis.—Mansuy, H., 3; Reed, F. R. C., 4.
Acmæa.—Dickerson, R. E., 2.
Acrochordiceras.—Diener, C.; Smith, J. P.
Acrohyænodon.—Rovereto, G., 4.
Acrolepis.—Broom, R., 10.
Acroloxus.—Harmer, F. W.
Acropeltis.—Lambert, J.
Acropora.—Canu, F., 3.
Acrostichum.—Berry, E. W., 5.
Actæonella Limestone, Lr. Austria.—Grengg, R.
Actæonina.—Renz, C., 4.
Actinoblatta.—Pruvost, P., 6.
Actinocrinus.—Wood, E.
Actinodonta.—Douvillé, H.
Actinopteria.—Mansuy, H., 3.
Actinopteris.—Jongmans, W.
Actinostroma.—Pæckelmann, W.
Adamaua (Cameroons).—Mann, O.
Adamellite, Victoria.—Summers, H. S.
Adamite.—Spencer, L. J.
Adams Sound (Baffin I.).—Johnston, R. A. A.
Addington Hills (Surrey).—Davies, G. M.
Adiantites.—Nathorst, A. G., 4.
Adiça (Portugal).—Choffat, P.
Adirondack Mts. (N.Y.).—Kemp, J. F.; Miller, W. J., 1 & 2.
Admiralty Inlet (Baffin I.).—Johnston, R. A. A.
Admont (Styria).—Kittl, E., 2.
Adour R. (France).—Blayac, J.
Adriatic coast.—Schubert, R.
Advent Bay (Spitsbergen).—Mainka, C.; Rempp, G., 1 & 2.
Adzva R. (Petchora).—Zalessky, M. D.
ÆBERHARDT, B., *Obit.*—*See* Sarasin, C.
Ægirite.—Hillebrand, S.
——, Montana.—Larsen, E. S., 3.
Æolian gradation.—Keyes, C. R., 6.
Aërolite.—*See* Meteorite.
Æshnidæ.—Cockerell, T. D. A., 2.
Africa, earth-fractures.—Suess, E.
——, land-connections between South America and.—Maury, C. J.
——, river-system of.—Haas, F.
—— (Central).—Brückner, E., 2; Range, P.; Studt, F. E.
—— (East), desiccation of.—Hobley, C. W.
—— (French Equatorial).—Azéma, —, 5.
—— (North-West).—Jaworski, E.
—— (Portuguese), bibliography of. — Choffat, P., 5.
—— (South).—*See* South Africa.
—— (West), geology of.—Douvillé, R., 4.
——. *See also* Congo Belge, German South-West Africa, &c.
Aganides.—Pæckelmann, W.

Agassiz, Funafuti boring and.—Judd, J. W., 3.
——, Lake (N. Am.).—Leverett, F., 3 & 4.
Agglomerate, Victorian volcanic.—Skeats, E. W., 2.
Aguaray (Argentina).—Carles, E. de.
Ahrdorf (Rh. Prussia).—Quiring, H.
Ain (France).—Gignoux, M., 3; Riaz, A. de.
Aïn-el-Ouarka (Algeria).—Azéma, —, 2.
Ajoie (Switzerland).—Hummel, K., 2.
Akasaka (Japan).—Deprat, J., 6.
Alabama (U.S.A.).—Abele, C. A., 1 & 2; Burchard, E. F.; Phillips, W. B.; Stephenson, L. W., 2 & 3.
Alamosite.—Merwin, H. E., 2.
Alaria.—Dickerson, R. E., 2.
Alaska.—Brooks, A. H.; Cairnes, D. D., 1 & 2; Capp, S. R.; Knopf, A.; Knowlton, F. H., 3; Maddren, A. G.; Martin, L., 1 & 2; Prindle, L. M.; Smith, P. S.; Wolff, W., 2.
Alberta.—Allan, J. A.; Brown, B, 1-4; Craig, E. H. C.; Dowling, D. B.; Lambe, L. M., 1-3, 5, & 6; MacKenzie, J. D.; Malcolm, W., 2; Ries, H., 2.
Albertella.—Burling, L. D., 2.
Albian, Algeria.—Joleaud, L., 3.
Albite.—Vendl, M., 2.
Aldermere (B.C.).—McConnell, R. G., 2.
Aldridge (Staffs.).—Clark, F. B.
Alectryonia. — Jukovski, E.; Smith, W. D.; Stefani, C. de.
Alemdouro (Portugal).—Souza-Brandão, V., 3.
Alemtejo (Portugal). — Souza-Brandão, V., 2.
Alessandria (Italy).—Crema, C., 2.
Alethopteris.—Arber, E. A. N., 4; Carpentier, A., 2; Kidston, R.; Wills, Lucy.
Alexandrian Series, Missouri. — Keyes, C. R., 5; Savage, T. E.
——, Illinois.—Savage, T. E.
Alfred County (Natal).—Du Toit, A. L.
Algæ, Jurassic.—Lignier, O., 9.
——, Miocene.—Smith, W. D.
——, Silurian.—Rothpletz, A.
——, Tertiary.—Morellet, L.
——, rock-forming. — Garwood, E. J., 1 & 2.
——, in French oolitic iron-ores. — Cayeux, L., 5.
——. *See also* Plantæ.
Algeria.—Azéma, —, 2; Dalloni, M., 2; Debruge, A.; Dollé, L.; Jaworski, E.; Jodot, P., 2; Joleaud, L., 1-3, 5, & 6; Rauw, H. de; Savornin, J., 1 & 2.
Algonkian, Newfoundland. — Buddington, A. F.
——, Utah.—Hintze, F. F., *fil.*
Algonquin beach, deformation of. — Leverett, F., 2.
Alitoxodon.—Rovereto, G., 4.
Alkaline rocks, Sweden.—Quensel, P., 3.
Allain (Hainault).—Delépine, G.
Allantopora.—Lang, W. D., 2.
Allegheny R. (Pennsylvania).—Wright, G. F., 2.
Allegheny-Pottsville boundary, United States.—White, D.
Allier (France).—Bardet, J.; Dareste de la Chavanne, J., 2; Friedel, G., 3.
Alligator.—Williston, S. W., 3.
Allonychia.—Foerste, A. F.
Allophanes, Moscow.—Nikolaevskii, F.
Allophanoid clays.—Aarnio, B.
Allorisma.—Fuchs, A.; Hind, W., 2; Licharev, B.
Allosaurus.—Huene, F. von, 9.
Alluvium, Gangetic Plain. — Oldham, R. D.
——. *See also* Drift, Quaternary, etc.
Almandine.—Lacroix, A., 6.
Almeria R. (Granada).—Lozano, R. S., 2.
Almunge (Sweden).—Quensel, P., 3.
Alomatia.—Cockerell, T. D. A.
Alpine thrust-masses, direction of movement of.—Kober, L., 2.
Alps, Austrian. — Götzinger, G., 2; Hahn, F. F.
——, Bavarian.—Broili, F., 2; Hahn, F. F., 2; Klebelsberg, R. von, 2 & 3.
——, Bernese.—Jeannet, A.
——, Carnic.—Vinassa de Regny, P.
——, Central European.—Kober, L.
——, Dauphiné.—Martonne, E. de.
——, Dinaric.—Kober, L., 1 & 2.
——, Eastern.—Heritsch, F., 3 & 4; Mohr, H.
——, French.—Combaz, P.; Jukovski, E.; Lugeon, M., 3.
——, Julian.—Kossmatt, F., 3.
——, Maritime. — Bertrand, L., 5; Maury, E.; Kilian, C. C. W.; Roccati, A.
——, North-Eastern.—Becke, F.
——, Obwalden.—Arbenz, P., 3.
——, Œtztal.—Klebelsberg, R. von, 4; Deeley, R. M., 3.
——, Pennine.—Craveri, M.
——, Rhætian.—Spitz, A.
——, Swiss.—Jacob, C.; Lugeon, M., 1, 3-5.
——, Venetian.—Boyer, G.
——, Western.—Sacco, F.
——, lake-basins in.—Lugeon, M., 5.
——, orogenesis & tectonics of.—Masarovich, A. N., 3.
Alsace.—Bill, P. C.; Kræmer, R.; Schirardin, J.; Seidlitz, W. von, 2.
Alsace-Lorraine, Geological Survey.—Buecking, H.
Alt-Belz (Pomerania).—Menzel, H.
Altaï Mts. (Siberia).—Mayer, G.
Altenberg (Silesia).—Berg, G.
Altengronau (Hesse-Nassau).—Seyfried, E. von.
Alton (Staffs.).—Beasley, H. C., 4.

Alum Bluff formation, Florida.—Vaughan, T. W., 4.
Alum-shales, Bornholm I.—Callisen, K.
Aluminium, Canada.—Cartwright, C. T.
Aluminium-hydrates in clays. — Edwards, M. G.; Ries, H.
Alumino-pyroxene.—Cesaro, G.
—— silicate rocks, alteration-products of.—Lacroix, A., 14.
Alunite.—Phalen, W. C.; Schrader, F. C., 1–3; Ward, L. K., 4; Zambonini, F.
Alvaux (Namur).—Devivier, P.
Alvayazere (Portugal).—Choffat, P., 2.
Alveolar structure.—Lohest, M., 2.
Alveolina. — Checchia - Rispoli, G.; Rutten, L., 2.
Alveolinella.—Rutten, L., 2.
Alveolites.—Chapman, F., 8; Mansuy, H.
Amaltheus.—Meister, E.; Pavlov, A. P.
—— *margaritatus* zone, Aveyron. — Monestier, J.
Amauropsis.—Dickerson, R. E., 2.
Ambatofotsikely (Madagascar). — Duparc, L., 6.
Amber, insects in.—Bagnall, R. S.
Ambo (Peru).—Meyer, H. L. F., 2.
Ambocœlia.—Kozlovski, R.; Mansuy, H., 2.
Ambrym I. (New Hebrides).—Lacroix, A., 13.
America (Central).—MacDonald, D. F.
—— (North), bibliography of.—Nickles, J. M.
—— (—), Cretaceous - Tertiary of. — Brown, B., 4; Knowlton, F. H., 2; Osborn, H. F., 7; Stanton, T. W.
—— (—), geological time in.—Coleman, A. P., 2; Schuchert, C., 9.
—— (—), ice-sheet.—Upham, W., 3.
—— (—), orogenic epochs in.—Blackwelder, E., 2.
—— (—), palæogeography of. — Schuchert, C., 7.
—— (—), Pre-Cambrian of.—Bayley, W. S.; Coleman, A. P.; Collins, W. H., 2; Lawson, A. C., 2; Leith, C. K., 1 & 2.
—— (—), Triassic invertebrate faunas of.—Smith, J. P.
—— (—), volcanic ash in.—Gould, C. N., 3.
—— (South), Jurassic of. — Jaworski, E., 2.
—— (—), land - connections between Africa &.—Maury, C. J.
—— (—), petroleum in.—Fuchs, F. G.
—— (—), *Vola* in Lias of.—Jaworski, E., 3.
——, Asiatic island - festoons and. — Suess, E.
——, climatic changes in.—Huntington, E., 3.
——, Geological Society of.—Stanley-Brown, J.; Stevenson, J. J., 2; Winchell, N. H., 4.
America. *See also* Brazil, United States, *&c.*
Amethyst-quartz.—Brauns, R., 4.
Amherst County (Virginia).—Watson, T. L., 3.
Amiata, Mte. (Tuscany).—Castro, C. de.
Ammergau (Bavaria).—Klebelsberg, R. von, 2.
Ammodiscus.—Sherlock, R. L.
Ammonites, formation of species of.—Salfeld, H.; Wepfer, E.
——, Liassic.—Thompson, C.
——, lobal lines of.—Nowak, J.
——, spirals of.—Girmounsky, A.
——. *See also* Cephalopoda.
Ammosaurus.—Huene, F. von, 8.
Ammotragus.—Freudenberg, W.
Amphibia. — Broom, R., 3; Watson, D. M. S., 15; Wiman, C.
——, Carboniferous. — Hummel, K.; Moodie, R. L.; Watson, D. M. S.
——, Jurassic.—Moodie, R. L.
——, Permian.—Broom, R., 9; Williston, S. W.
——, Permo-Carboniferous.—Williston, S. W., 2.
——, Pliocene.—Moodie, R. L.
——, Triassic.—Schrœder, H.
Amphibole, Celebes.—Brouwer, H. A.
——, Ural Mts.—Duparc, L., 3.
Amphibolite, Croatia.—Tucan, F., 4.
——, Finistère.—Azéma, —, 3 & 4.
——, Ireland.—Cole, G. A. J.
——, Lower Austria.—Becke, F., 3.
——, Portugal.—Souza-Brandão, V., 3.
——, Ural Mts.—Duparc, L., 8.
Amphicyon.—Pilgrim, G. E.
Amphinasua.—Rovereto, G., 4.
Ampullaria.—Jodot, P., 2; Oswald, F.
Ampullospira. — Dareste de la Chavanne, J.
Amsterdam.—Gracht, W. A. J. M. van W. van der.
Analcite-basalt, Sardinia.—Washington, H. S., 3 & 5.
Analyses, ægirite.—Hillebrand, S.
——, allophanoid clays.—Aarnio, B.
——, alunite. — Schrader, F. C., 3; Ward, L. K., 4.
——, amphibolite.—Azéma, —, 3.
——, analcite-basalt.—Washington, H. S., 3.
——, augite.—Hallimond, A. F.; Scott, A.
——, babingtonite.—Hillebrand, S.
——, ballstone.—Crosfield, M. C.
——, barthite.—Henglein, M., 2.
——, basalt.—Cross, W., 3; Dunn, E. J., 15; Washington, H. S., 3 & 5.
——, biotite.—Simpson, E. S., 5.
——, bornite.—Kraus, E. H.
——, celestite.—Phalen, W. C.
——, chiastolite.—Mawson, D.
——, clays.—Ries, H., 2 & 3; Keele, J.
——, coal.—Anon., 43; Hance, J. H.; Lee, W. T.; Pardee, J. T.; Simpson, E. S., 3 & 6.

Analyses, cobaltiferous gold-copper-ore. —Simpson, E. S., 6.
——, copper.—Ball, S. H.
——, crinoid-skeletons.—Clarke, F. W., 3.
——, diabase.—Miller, W. J., 4.
——, diorite.—Duparc, L., 8.
——, dolomite.—Blackwelder, E.
——, empressite.—Bradley, W. M.
——, epidote.—Grill, E., 2.
——, essexite.—O'Neill, J. J.
——, gabbro.—Duparc, L., 8; Miller, W. J., 4; Schofield, S. J., 2.
——, garnet.—Hezner, L.
——, glass-sand.—Dunn, E. J., 4.
——, granite.—Schofield, S. J., 2.
——, gypsum.—Kay, G. F.
——, hewettite.—Hillebrand, W. F.
——, infiltration-water.—Duparc, L., 4.
——, kaolin.—Ward, L. K., 6.
——, keratophyres.—Farquharson, R. A.
——, lavas.—Robinson, H. H.; Washington, H. S., 4 & 6.
——, lignite.—Bowen, C. F., 2; Herald, F. A.; Ward, L. K., 8.
——, limestones.—Bigot, A., 9; Butler, B. S., 2; Trechmann, C. T., 2.
——, Magnesian Limestone. — Trechmann, C. T., 2.
——, magnesite.—Ward, L. K., 6.
——, magnetite.—Lindeman, E., 3 & 4.
——, metahewettite. — Hillebrand, W. F.
——, meteorites.—Simpson, E. S., 4; Stanley, G. H.
——, migmatitic rocks. — Sederholm, J. J., 2.
——, mineral waters.—Burrell, B. A.; Gautier, A., 2; Henderson, J.; Jones, W. R.; Piutti, A.; Skeats, E. W.
——, minervite.—Gautier, A.
——, minette.—Cross, W., 3.
——, monazite.—Simpson, E. S., 2.
——, monzonite. — Butler, B. S., 2; Stewart, C. A.
——, nitre.—Richards, R. W.
——, obsidian.—Dunn, E. J., 15.
——, pascoite.—Hillebrand, W. F.
——, pickeringite.—Simpson, E. S., 6.
——, pisanite.—Van Horn, F. R., 3.
——, porphyry.—Quensel, P., 2.
——, potash.—Hance, J. H., 2; Gale, H. S., 2-5.
——, prehnite.—Johnston, R. A. A.
——, pyroxenite.—Duparc, L., 8.
——, radium-ore.—Simpson, E. S.
——, rougemontite & rouvillite. — O'Neill, J. J.
——, rutile.—Simpson, E. S., 6.
——, salt.—Michael, R., 2.
——, sand.—Dunn, E. J., 4; Vendl, A., 3.
——, sanidinite.—Gachot, H.
——, searlesite.—Larsen, E. S., 1 & 2.
——, serpentine.—Duparc, L., 8.
——, shale.—Ries, H., 2; Keele, J.
Analyses, soils.—Ballenegger, R., 2; Blair, A. W.; Cole, G. A. J., 3; Cox, A. J.; Harrison, J. B., 3.
——, sulphohalite.—Gale, H. S., 8.
——, syenite. — Nacken, R.; O'Neill, J. J.
——, talc.—Simpson, E. S., 6; Ward, L. K., 6.
——, temiskamite.—Walker, T. L.
——, tilaite.—Duparc, L., 8.
——, tinguaite.—O'Neill, J. J.
——, trachyphonolite.—Gachot, H.
——, underclays.—Chapman, S. E.
——, uranium-ore.—Simpson, E. S.
——, vogesite.—Cross, W., 3.
——, volcanic bomb.—Kichler, L.
——, volcanic gas.—Day, A. L., 3.
——, water.—John, C. von; Lamplugh, G. W., 3.
——, wilkeite.—Eakle, A. S.
——, yamaskite.—O'Neill, J. J.
——, yukonite.—Tyrrell, J. B., 3.
——, Auvergne volcanic rocks.— Glangeaud, L.
——, British Guianan soils.—Harrison, J. B., 3.
——, Colorado igneous rocks. — Cross, W., 3.
——, Karawanken Tunnel water. — John, C. von.
——, Madagascar igneous rocks. — Lacroix, A., 12.
——, New Zealand igneous rocks. — Henderson, J.
——, Quebec igneous rocks.—Dresser, J. A.
——, South Australian igneous & metamorphic rocks.—Mawson, D., 2.
——, Swedish alkaline rocks.—Quensel, P., 3.
——, Swedish ore-bearing rocks. — Sjögren, H., 2.
——, Tasmanian minerals. — Petterd, W. F.
——, Victorian igneous rocks. — Summers, H. S.
——, Waldviertel rocks.—Becke, F., 3.
——, Whin Sill inclusions.—Smythe, J. A.
Analysis, rock-.—Connor, M. F.
Anarthrocanna.—Jongmans, W.
Anaschisma.—Wiman, C.
Anatase. — Buttgenbach, H.; Larsen, E. S., 4.
Anatexis, Finland.—Sederholm, J. J., 2.
Anatina.—Negre, G., 2.
Anatolia.—Vadasz, M. E.
Anchisaurus.—Huene, F. von, 8.
Anchura.—Dickerson, R. E., 2.
Ancilla.—Harmer, F. W.
Ancodus.—Pilgrim, G. E.
Andalusite, Japan.—Oyu, M., 2.
ANDERSON, T., *Obit.*—*See* Anon.; Jackson, B. D.; Strahan, A., 2.
Andes (S. Am.).—Douglas. J. A.; Keidel, H., 1 & 2; Palmer, H. S.; Suess, E.; Willis, B.

Andesite, Andes.—Douglas, J. A.
——, Ayrshire.—Tyrrell, G. W.
——, New Zealand. — Henderson, J.; Speight, R.
——, Siberia.—Weigel, O.
——, Yunnan.—Burton, R. C.
Andradite.—Larsen, E. S., 4.
Andromeda.—Berry, E. W., 5; Fritel, P. H.; Menzel, P.
Androvettia.—Berry, E. W., 5.
Angela meteorite.—Prior, G. T.
Ångermanland (Sweden).—Liden, R.
Angularia.—Dareste de la Chavanne, J.
Anhalt.—Linstow, O. von, 2.
Anhydrite, gypsum and.—Wallace, R. C.
Aniche (Nord).—Broussier, F.
Anisocardia.—Douvillé, H.; Rollier, L.
Anjou (France).—Nicou, P.
Ankerite.—Kræmer, R.; McDonald, D. P.; Recknagel, R.
Ankogel Glacier (Tyrol).—Angerer, H.
Annam.—Deprat, J., 1–3; Mansuy, H.
Annelida, Cretaceous.—Etheridge, R., *fil.*; Stefani, C. de.
Annularia.—Jongmans, W.; Kidston, R.
Annulariopsis.—Jongmans, W.
Anodontophora.—Böhm, J.; Diener, C.
Anolcites.—Tommasi, A.
Anomalosipho.—Harmer, F. W.
Anomia.—Diener, C.
Anomite.—Simpson, E. S., 5.
Anona.—Menzel, P.
Anoplotheca.—Liebrecht, F.
Anoplotherium.—Palmer, R. W.
Anoptychia.—Cossmann, A. E. M.
Anorthosite, Quebec.—Graham, R. P. D.
Antarctica.—David, T. W. E., 1 & 2; Ferrar, H. T., 2; Gourdon, E.; Harris, A. W.; Manson, M.; Penck, A., 2; Seward, A. C., 4; Taylor, G., 2.
——, bibliography of.—Denucé, J.
Antarcticoxylon.—Seward, A. C., 4.
Anthozoa, Carboniferous.—Delépine, G.; Mansuy, H., 1 & 3; Meyer, H. L. F.; Salée, A., 1 & 2.
——, Cretaceous.—Etheridge, R., *fil.*; Stefani, C. de; Zuffardi, P., 2.
——, Devonian.—Mansuy, H.
——, Eocene.—Andrée, K., 3; Dickerson, R. E., 2.
——, Liassic.—Dareste de la Chavanne, J.
——, Miocene.—Nelli, B.
——, Ordovician.—Foerste, A. F.; Raymond, P. E., 4.
——, Permian.—Licharev, B.
——, Permo-Carboniferous. — Mansuy, H., 2.
——, Quaternary.—Smith, W. D.
——, Silurian.—Chapman, F., 8; Mansuy, H., 1 & 3; Rothpletz, A.
——, Tertiary.—Kranz, W.; Lotz, H.; Oppenheim, P.; Smith, W. D.
Anthracite (Anthraxolite), Crimea. — Arschinow, W. W., 2.
Anthracotherium.—Pilgrim, G. E.
Anticlines, geometry of.—Holland, Sir Thomas H., 2.
Antigorite.—Julien, A. A., 2.
Antigua.—Brown, A. P., 1 & 2.
Antimony, Canada.—Cartwright, C. T.
Antiplanation in sub-Arctic regions.—Eakin, H. M.
Antrona Piana, Lake (Piedmont).—Craveri, M.
Antrona Valley (Piedmont).—Craveri, M.
Anzin (Nord).—Bertrand, P.
Apateacanthus.—Hussakof, L.
Apatite.—Brüggen, J.; Laubmann, H., 2; Ledoux, A., 3.
Apennines (Italy).—Ugolini, R.
Apenrade (Schleswig-Holstein).—Wolff, W.
Aphanoptyxis.—Jukovski, E.
Aphantomarius.—Pruvost, P., 3.
Aphralysia.—Garwood, E. J.
Aphyllostachys.—Jongmans, W.
Apishapa (Colorado).—Cross, W., 3.
Aplite, Federated Malay States.—Scrivenor, J. B., 4.
Aplite-injection, tectonic significance of.—Schardt, H.
Apold (Transylvania). — Roth von Telegd, L.
Appalachians (North America).—Barrell, J., 3 & 4.
—— geosyncline.—Barrell, J., 2.
Apparatus, crystallographic. — Kraus, E. H., 2; Thomas, Herbert H.; Voigt, W.; Wallerant, F.; Wulff, G., 2.
——, mineralogical.—Kaiser, E., 2.
——, petrographical.—Anon., 59.
Aptian, Switzerland.—Jacob, C.
Aptyxiella.—Jukovski, E.
Apulia.—Bassani, F.; Erasmo, G. d'.
Aqueo-glacial sedimentation. — Lahee, F. H., 4.
Aquila (Abruzzi).—Crema, C.
Aquilaria.—Menzel, P.
Aquitanian, Aquitaine.—Dollfus, G. F.; Repelin, J.
Arachnida, Carboniferous.—Peach, B. N.; Pruvost, P., 3; Schlechtendal, D. von.
Aræoscelis.—Williston, S. W., 3.
Aragonite.—Kræmer, R.
Aralia.—Berry, E. W., 5.
Araliæcarpum.—Menzel, P.
Araucanian, Argentina.—Rovereto, G., 4.
Araucaria.—Berry, E. W., 5.
Arauco (Chile).—Brüggen, J., 3.
Arca.—Dollfus, G. F., 9; Holdhaus, K.; Lotz, H.; Smith, W. D.
Arcestes.—Mansuy, H.; Smith, J. P.; Toula, F.

Archæan, French Equatorial Africa.—Azéma, —, 5.
——, India.—Holland, Sir Thomas H.
——, Ontario.—Lawson, A. C.
——, Shan States.—La Touche, T. H. D.
——, Worcestershire.—Spackman, F. T.
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Archæocalamites.—Jongmans, W., 2.
Archæohippus.—Merriam, J. C., 2.
Archæopteris.—Kidston, R.
Archæosigillaria.—Nathorst, A. G., 4.
Archimylacris.—Pruvost, P., 6.
Archosauria.—Huene, F. von, 6.
Arcomya.—Rollier, L.
Arcoperna.—Chapman, F., 13.
Arcoptera.—Diener, C.
Arctic Beds, Lea Valley.—Warren, S. H., 4.
—— Ocean, rocks from.—Backlund, H.
—— regions, Palæozoic fossils of.—Schuchert, C., 5.
Arctops.—Watson, D. M. S., 7.
Ardea.—Freudenberg, W.
Ardennes.—Asselbergs, E.; Cayeux, L., 2; Priem, F., 2.
Arezzo (Italy).—Chelussi, I., 4.
Argentario, Mte. (Tuscany).—Braun, G.; Onetti, A.
Argentina.—Bodenbender, G., 1 & 2; Carles, E. de; Clarke, J. M.; Gerth, H., 1 & 2; Jaworski, E., 2; Keidel, H., 1 & 2; Palmer, H. S.; Rovereto, G., 3 & 4; Sokolov, D. N.; Willis, B., 1 & 2.
Argiope.—Nielsen, K. B.
Argobuccinum.—Martin, B.
Argyllshire.—Bailey, E. B.; Smellie, W. R.
Argyrite.—Friedel, G.
Arica (Chile).—Douglas, J. A.
Ariège (France).—Bertrand, L.; Longchambon, M., 5.
Arietites.—Dareste de la Chavanne, J.; Schmidt, E. W.; Vadasz, M. E.
Arizona (U.S.A.).—Douglas, James; Gregory, H. E., 3; Hance, J. H., 2; Hill, J. M., 1 & 3; Keyes, C. R., 3; Margerie, E. de; Meinzer, O. E., 2; Phalen, W. C.; Ransome, F. L.; Robinson, H. H.; Schrader, F. C., 1 & 2.
Arkansas.—Miser, H. D.
Arkose, fluorspar-cement in Triassic.—Hartmann, P.
Armadillidium.—Peach, B. N.
Armagh.—Hallissy, T.
Armagnac (France).—Dollfus, G. F., 8.
Armeria arctica.—Reid, C., 2.
Armorican sandstone, cleavage of.—Anthoine, R.
Aroha (N.Z.).—Henderson, J.
Arpojaure, Lake (Lapland).—Ahlmann, H. W.; Svenonius, F., 2.
Arran.—Mort, F.; Scott, A., 4.
ARRHENIUS's theory of Glacial Period.—Kayser, E.
Arribasaurus.—Williston, S. W., 3.
Arriondas (Asturias).—Mengaud, L., 2.
Arsenopyrite.—Van Horn, F. R., 3.
Artesian water, Australia.—Anon., 53; Blatchford, T. A.; Pittman, E. F.
——, Kharga Oasis.—Beadnell, H. J. L.
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Artesian wells, British Guiana.—Harrison, J. B., 1 & 2.
Arthraria.—Foerste, A. F.
Arthraster.—Spencer, W. K.
Arthrodendromyelon.—Jongmans, W., 2.
Arthrodendron.—Jongmans, W., 2.
Arthropityostachys and *Arthropitys.*—Jongmans, W., 2.
Arthropleura.—Calman, W. T.; Pruvost, P.
Arthrostigma.—Goldschmidt, V. M.
Arthur's Seat (Edinburgh).—Flett, J. S., 2.
Artiodactyla.—Stromer, E.
Artisia.—Lignier, O., 9.
Arundo.—Berry, E. W., 5.
Arvicola.—Freudenberg, W.
Asama-yama (Japan).—Omori, F., 1–3.
Asaphidæ.—Raymond, P. E., 3.
Asaphus.—Reed, F. R. C., 4.
Åsar, Posen.—Korn, J., 1 & 4.
——, kames and.—Philipp, H.
——, origin of.—Philipp, H., 4.
——. *See also* Eskers.
Asbestos, Quebec.—Denis, T. C.; Dresser, J. A.; Krusch, P., 3.
——, Transvaal.—Hall, A. L.
Ashburton district (W. Australia).—Foote, W. M.; Woodward, H. P., 2.
Ashland County (Ohio).—Hubbard, G. D.
Asia (Central), overthrusts in.—Leuchs, K., 3.
—— (East), Cambrian faunas of.—Walcott, C. D., 2.
——, island-festoons of.—Suess, E.
——. *See also* Annam, Siberia, *&c.*
Asia Minor.—Angot, A.; Brauns, R., 2; Königsberger, J., 4; Philippson, A.; Vadasz, M. E.
Aspasia.—Jongmans, W., 2.
Asphalt, California.—Merriam, J. C., 5.
Aspideretes.—Lambe, L. M., 5.
Aspidosoma.—Spencer, W. K., 2.
Asplenium.—Kristofovič, A., 2.
Assam.—Pascoe, E. H., 2.
Assimilation, Adirondack Mts.—Miller, W. J., 2.
Asson, Bois d' (Basses-Alpes).—Fritel, P. H.
Astarte.—Dareste de la Chavanne, J.; Douvillé, H.; Holdhaus, K.
Asterobrissus.—Démoly, F.
Asterocalamites.—Jongmans, W., 2; Nathorst, A. G., 4.
Asterochlœna.—Bertrand, P., 3.
Asteroidea, Cretaceous.—Fourtau, R.; Spencer, W. K.
——, Devonian.—Schœndorf, F.

Asteroidea, Palæozoic.—Schuchert, C.; Spencer, W. K., 2.
Asterophyllites.—Jongmans, W., 3.
Asteropteris.—Bertrand, P., 3.
Asterozoa, Palæozoic.—Spencer, W. K., 2.
Astieria.—Zwierzycki, J.
Astræopora.—Oppenheim, P.
Astrodapsis.—English, W. A.
Astur.—Freudenberg, W.
Asturias (Spain).—Bertrand, L., 6; Mengaud, L., 2.
Astyris.—Harmer, F. W.
Asulkan Glacier, British Columbia.—Ries, H., 4.
Atherstone (Warwickshire). — Coleby, H. J.
Athyrid-limestone, Dutch East Indies. —Seidlitz, W. von.
Athyris.—Licharev, B.; Mansuy, H., 1 & 2.
Atikokania.—Abbott, G., 2.
Atolls, Florida.—Vaughan, T. W., 2.
——, DARWIN's theory of.—Poulton, E. B.
Atractites.—Smith, J. P.; Toula, F.
Atrio del Cavallo (Vesuvius).—Malladra, A.
Atrypa.—Pæckelmann, W.
Attendorn (Westphalia).—Henke, W., 2; Schmidt, W. E.
Atuel, R. (Argentina).—Jaworski, E., 2.
Aturia.—Lotz, H.
Aucella.—Holdhaus, K.; Lange, O. K.
Augen-gneiss, Tauern.—Sander, B.
Augite.—Bœke, H. E., 4; Hallimond, A. F.; Scott, A.
Auge (Calvados).—Bigot, A., 3.
Aulophyllum.—Salée, A., 1 & 2.
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Aurichalcite.—Katō, T.
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—— gravels, Burma.—Bion, H. S.
——, California.—Diller, J. S.
——, Portugal.—Choffat, P.
——, Victoria.—Dunn, E. J., 3.
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——, Kainozoic of.—Chapman, F., 4.
——, sand-drift on east coast of.—Halligan, G. H.
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——, salt-deposits of.—Görgey, R. von.
Austria (Lower).—Becke, F., 2 & 3; Freudenberg, W.; Götzinger, G. Grengg, R.; Mohr, H.; Schaffer, F. X.; Schlesinger, G.; Sigmund, A.; Winkler, A., 4.
—— (Upper).—Dreger, J.; Geyer, G.; Till, A.
Austrian Palæontological Expedition to Greece.—Abel, O., 2.
Auteuil (Paris).—Combes, P.
Auvergne (France). — Glangeaud, P.; Lemoine, P., 5.
Auxerre (Yonne).—Thierry, H.
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——, Pliocene.—Stirling, E. C., 1 & 3.
——, Tertiary.—Anderson, W.; Rovereto, G., 4; Shufeldt, R. W., 2.
Aveyron (France).—Monestier, J.
Avicula.—Böhm, J.; Diener, C.; Holdhaus, K.; Jeannet, A.; Mansuy, H.; Pæckelmann, W.
Aviculidæ.—Teppner, W., 4.
Aviculopecten.—Licharev, B.; Mansuy, H., 2 & 3; Pruvost, P., 5.
Avon R. Basin (Warwickshire). — Simpson, C. A.
Avonian & Dinantian, correlation of.—Vaughan, A.
Axinite.—Wherry, E. T., 3.
Axophyllum.—Salée, A.
Ayer Panas (Malay Penin.). — Jones, W. R.
Aylesbury (Bucks).—Davies, G. M.
Ayrshire.—Reed, F. R. C., 4; Scott, A., 2; Tyrrell, G. W.
Ayusbamba (Peru). — Eaton, G. F.; Gregory, H. E.
Azor.—Smith, W. D.
Azurite.—Manasse, E.: Merwin, H. E., 2.

Baar (Baden).—Deecke, W.
Babingtonite.—Fenner, C. N., 3 & 4; Hillebrand, S.
Bacchus Marsh (Victoria).—Dunn, E. J., 4.
Bacterial precipitation of calcium-carbonate.—Drew, G. H.; Kellerman, K. F.
Baculogypsina.—Rutten, L., 2.
Badajoz (Spain).—Sacristan, J.
Baddeleyite.—Zambonini, F.
Baden (Germany).—Bubnoff, S. von, 1 & 2; Buri, T.; Deecke, W., 1 & 2; Lais, R.; Schnarrenberger, K., 1-7; Seidlitz, W. von, 2; Spitz, W.; Thürach, H.
Baffin I. (Canada).—Johnston, R. A. A.
Baffle Creek (Queensland).—Ball, L. C.
Bagni di Casciana (Tuscany).—Borri, C.
Bahama Is.—Vaughan, T. W.
Bahia (Brazil).—Washington, H. S., 2.
Baikal, Lake (Siberia).—Egorov, C.

Bail Hill (Dumfriesshire).—Scott, A.
Bajocian, Lyonnais.—Riaz, A. de.
——, Meurthe.—Joly, H.
Bakewellia.—Licharev, B.
Bakony Wald (Hungary).—Tæger, H.
Bala (Merioneth).—Elles, G. L.
—— Limestone.—Elles, G. L.
Balanitocarpum.—Menzel, P.
Balatonites.—Mansuy, H.; Smith, J. P.
Bald Hill (Tasmania). — Twelvetrees, W. H., 2.
Balearic Is.—Bate, D. M. A., 1 & 2; Fallot, P.; Kilian, C. C. W., 3.
Balf (Hungary).—Vendl, M., 2.
Balga (E. Prussia).—Klautzsch, A.
Balglass (Stirlingshire).—Gregory, J. W.
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Ballachulish Fold (Argyll). — Bailey, E. B.
Ballandean (Queensland).—Saint-Smith, E. C., 4 & 5.
Ballarat (Victoria).—Baragwanath, W., 2; Dunn, E. J., 2.
Ballstone.—Crosfield, M. C.
Ballybetagh (Co. Dublin).—Stokes, H.
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Baluchistan.—Pilgrim, G. E.
Banbury (Oxon.).—Walford, E. A., 3.
Bancroft (Ontario).—Barlow, A. E.
Banff (Alberta).—Allen, J. A.; Lambe, L. M., 6.
Bangalore (Mysore).—Sen, A. M.
Banket.—Hatch, F. H.; Horwood, C. B.; Young, R. B., 1 & 2.
Bannock thrust, Idaho. — Richards, R. W., 3.
Banswal (United Provinces).—Brown, J. C., 4.
Baranya (Hungary).—Ballenegger, R.; Loczy, L. von.
Barbacoas (Colombia).—Anon., 55.
Barber Coal-field (Wyoming).—Wegemann, C. H.
Barberton (Transvaal).—Draper, D.
Barenton (Manche).—Anthoine, R.
Barkevikite.—Scott, A., 2.
BARLOW, A. E., *Obit.*—*See* Ami, H. M.
Barnesboro (Pennsylvania). — Ashley, G. H.
Barnhurst (Kent).—Chandler, R. H.
Barr (Alsace).—Schirardin, J.
Barrie (Ontario).—Johnston, W. A.
Baroti meteorite.—Prior, G. T.
Barstow (California).—Pack, R. W.
Barthite.—Henglein, M., 2.
Bartonian, Landes.—Lambert, J., 4.
Barysmilia.—Kranz, W.
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Basalt, Colorado.—Cross, W., 3.
——, Erzgebirge.—Michel, H., 3.
——, Essex.—Salter, A. E.
Basalt, Frankfurt a. M.—Wenz, W.
——, German S.W. Africa. — Rimann, E., 2.
——, Lr. Austria.—Winkler, A., 4.
——, Sardinia. — Washington, H. S., 3 & 5.
——, Tasmania.—Nœtling, F., 7.
——, Victoria. — Chapman, F., 12; Dunn, E. J., 8 & 15.
Basel (Switzerland).—Struebin, K.
Bass Strait (Australasia).—Nœtling, F., 5.
Bassanite.—Zambonini, F.
Bassée, La (Nord).—Brégi, L.
Basses Alpes (France). — Cotte, C.; Fritel, P. H.; Guébhard, A., 1–3; Lanquine, A.
Basses Pyrénées (France).—Bertrand, L., 2; Fournier, E., 1 & 2.
Bassian Isthmus.—Tillyard, R. J.
Baste (Harzburg).—Uhlig, J.
Basterotia.—Nelli, B.
Bath (Somerset).—Winwood, H. H.
'Batholith,' the term.—Lawson, A. C., 3.
Batholiths, British Columbia. — Bancroft, J. A.
——, Montana.—Knopf, A., 2.
Bathonian, Meurthe.—Joly, H.
——, Yonne.—Thierry, H.
Bathraspyra.—Cossmann, A. E. M.
Bathyopsis.—Osborn, H. F., 6.
Bathyurus.—Raymond, P. E., 5.
Batoe Poetih (Borneo).—Rutten, L.
Batrachiderpeton. — Watson, D. M. S.
Batrachioides.—Kindle, E. M., 7.
Baudour (Hainault).—Cornet, J., 4.
Bauges (Savoy).—Combaz, P.
Baume St. Vérédème (Gard).—Mazauric, F.
Bauria.—Watson, D. M. S., 7.
Bauxite.—Tucan, F., 2.
Bavaria.—Broili, F., 2; Haas, F., 2; Hahn, F. F., 2 & 4; Klebelsberg, R. von, 2; Kranz, W., 2; Krauss, H.; Laubmann, H., 2; Lebling, C.; Pfaff, F. W., 2 & 4; Ochotzky, H.; Schuster, M., 3; Sokol, R.; Suess, F. E.; Weithofer, K. A.; *see also* Franconia.
Baylea.—Mansuy, H.
Bdelloidina.—Franke, A.
Bear I.—Nathorst, A. G., 3.
Beatus-Höhle (Berne).—Martel, E. A.
Beauce (France).—Dollfus, G. F., 4.
Beaufort Beds, South Africa.—Watson, D. M. S., 12.
Beausoleil, Mt. (Var).—Bigot, A., 4.
Beauval (Somme).—Negre, G.
Beaverton (Ontario).—Johnston, W. A.
BECKE method in crystallography.—Collingridge, H.; Schlossmacher, K.
Bedfordshire.—Davies, G. M.
Beech Forest (Victoria).—Dunn, E. J., 6.
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Beesley, T., *Obit.*—*See* Woodward, H. B.

Beisselina.—Canu, F., 3.

Bél Mts. (Hungary).—Palfy, M. von; Rozlozsnik, P.

Belemnitella-quadrata Bed, Yonne.—Negre, G., 2.

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——, Quaternary of.—Commont, V.

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——, wood- and peat-pebbles of coast of.—Fraipont, C., 1 & 2.

——. *See also* Brabant, *&c.*

Belgrandia.—Korn, J., 3.

Belingwe (S. Rhodesia).—Wagner, P. A., 2.

Bell R. (Quebec).—Wilson, M. E., 2.

—— Sound (Spitsbergen).—Böhm, J.

Bellas (Portugal).—Souza-Brandão, V., 4.

Bellerophon.—Foerste, A. F.; Frech, F.; Mansuy, H., 2.

Belley (Ain).—Gignoux, M., 3.

Belly-River Beds.—Stebinger, E., 2.

—— —— ——, Alberta.—Brown, B., 4; Lambe, L. M., 2, 3, & 5.

Beltian, British Columbia.—Schofield, S. J., 3.

Belzungia.—Morellet, L.

Bendigo (Victoria).—Baragwanath, W.; Hall, T. S.; Whitelaw, H. S.

Benedicktenwand (Bavaria).—Klebelsberg, R. von, 2.

Benevento (Campania).—Galdieri, A., 2.

Bengal (India).—Pascoe, E. H., 2.

Beni-Mguild (Morocco).—Poirée, E.

Beni Mtir (Morocco).—Gentil, L., 2; Poirée, E.

Bentley (Suffolk).—Davies, G. M.

Beraunite.—Wherry, E. T., 3.

Berchtesgaden (Bavaria).—Lebling, C.

Berea Sandstone, Ohio. — Burroughs, W. G.

Berenicea.—Canu, F., 4.

Bereozovsk (Urals).—Purington, C. W.

Beringius.—Harmer, F. W.

Berkshire.—Davies, G. M.; Treacher, Ll.

Bermuda I.—Pirsson, L. V., 2.

Berne (Switzerland). — Antenin, F.; Arbenz, P., 2; Hummel, K., 2; Lugeon, M., 4; Martel, E. A.; Schuh, F.

Bernina Pass (Rhætian Alps).—Spitz, A.

Berwickshire.—Flett, J. S., 2.

Beryl.—Lacroix, A., 5; Wittich, E.

Besbre Valley (Allier).—Dareste de la Chavanne, J., 2.

Bessillons (Alpes Maritimes).—Bertrand, L., 5.

Bessin (France).—Bigot, A., 3.

Betafite.—Lacroix, A., 5.

Bévera (Alpes Maritimes). — Kilian, C. C. W.

Beyrichites.—Smith, J. P.

Bhamo (Burma).—Brown, J. C.

Bibliography, Antarctica.—Denucé, J.

——, Derbyshire.—Gibson, W.

——, French vulcanology.—Sabot, R.

——, gold-fields, Nova Scotia.—Malcolm, W.

——, Hungarian geology.—Timko, E., 3.

——, Iowan geology & mining.—Keyes, C. R.

——, Mammoth Cave.—Hovey, H. C.

——, North American geology.—Nickles, J. M.

——, H. F. Osborn.—*See* Osborn, H. F.

——, Portuguese geology.—Choffat, P., 5.

——, Rhenish Schiefergebirge.—Kaiser, E.

——, Swiss geology. — Gogarten, E.; Sarasin, C.

——, Triassic Dinosauria.—Huene, F. von, 10.

——, United States water. — Wood, B. D., 2 & 3.

Bielogori (Russia).—Schvezov, M. S.

Bielzowa (Siberia).—Weigel, O.

Bigenerina.—Sherlock, R. L.

Bighorn Mts. (Wyoming). — Blackwelder, E.

Bigotella.—Cossmann, A. E. M.

Bilston Burn (Edinburgh). — Macconochie, A.

Bimbowrie (S. Austr.).—Mawson, D.

Bimulticavea.—Canu, F.

Binnental (Valais).—Hezner, L.

Biotite.—Lahee, F. H., 3.

——, Western Australia. — Simpson, E. S., 5.

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Birkenhead (Cheshire).—Travis, C. B., 2.

Birmingham.—Lapworth, C.

Bisbee (Arizona).—Douglas, J.

Biscayne Bay (Florida).—Dole, R. B.

Bishop Stortford (Hertfordshire). — Irving, A., 5.

Bismuth, Tasmania.—Twelvetrees, W. H.

Bison. — Freudenberg, W.; Hopkins, T. C.

—— *regius.*—Hay, O. P.

Bispgården (Sweden).—Carlzon, C.

Bituminous shale, Kuckers.—Born, A.

Blackfeet Indian Reservation (Montana).—Stebinger, E.

Black Forest (Baden).—Bubnoff, S. von, 1 & 2; Buri, T.; Seidlitz, W. von, 2.

Blackhall (Durham).—Prest, J. J.

Black Hills (Dakota).—Paige, S.

Black Lake (Quebec).—Krusch, P., 3.

Black R. (Tongking).—Deprat, J., 2, 4, & 8.

Black sands, Madagascar.—Duparc, L., 1 & 2.

Black shale, Indiana.—Elkins, M. G.

Bladiau (E. Prussia).—Klautzsch, A.

Blastoidea, Ordovician.—Foerste, A. F.

Blœdite.—Gale, H. S., 5.
Blue Anchor (Somerset).—Evans, J. W., 4.
Bluecliffs (N.Z.).—Gudex, M. C.
Bochianites.—Zwierzycki, J.
Bodenbach (Bohemia).—Michel, H., 3.
Bogs, Massachusetts *Chamæcyparis.*—Johnson, D. W.
——, North Germany.—Hess von Wichdorff, H., 3.
Bohemia.—Angel, F.; Berg, G.; Hibsch, J. E., 1–3; Hummel, K.; Jezek, B.; Liebus, A.; Michel, H., 1 & 3; Nowak, E.; Rimann, E.; Sokol, R.; Weber, M.
Bohemilla.—Reed, F. R. C., 4.
Bohuslän (Sweden).—Van Post, L.
Boiling-stones.—Cantrill, T. C., 2.
Bois Chaté (Lorraine).—Nicklès, R.
Bokkeveld Beds.—Shand, S. J., 3.
Bokovka Mt. (Russia).—Popov, S.
Bolbopodium.—Lignier, O.
Bolivia.— Douglas, J. A.; Gholitzuin, B.; Groth, J.; Kozlovski, R.; Meyer, H. L. F., 2; Sefve, I.
Bolkenhain (Silesia).—Zimmerman, E., 1.
Bologna (Italy).—Chelussi, I., 4; Nelli, B.
Bolosaurus.—Broom, R., 6.
Bombs, volcanic.—Kichler, L.; Liesegang, R. E.
Bondoc Penin. (Philippine Is.).—Pratt, W. E., 1, 3, & 4.
Bonn (Rhenish Prussia). — Schuermann, E., 1 & 2.
Borates, California.—Gale, H. S., 6.
Borax, California.—Gale, H. S., 3.
Boremys pulchra.—Lambe, L. M., 5.
Boreotrophon.—Martin, B.
Boring-molluscs.—Struebin, K.
Borings, Bermuda Is.—Pirsson, L. V., 2.
——, British Columbia.—Malloch, G. S.
——, British Guiana.—Harrison, J. B., 1 & 2.
——, Calvados.—Dollfus, G. F., 3.
——, Canada.—Ingall, E. D.
——, Champagne.—Laurent, J.
——, Cheshire.—Strahan, A.
——, Denmark.—Faber, H.
——, Derbyshire.—Gibson, W.
——, Devon.—Jukes-Browne, A. J., 2.
——, Durham.—Prest, J. J.
——, Gloucestershire.—Richardson, L., 5.
——, Hainault.—Cornet, J., 2–4; Dubois, J.; Renier, A.
——, Holland.—Bœke, H. E., 2; Huffnagel, P.; Jongmans, W., 4; Tesch, P.
——, Lorraine.—Nicklès, R.
——, Nord.—Pagniez, —, 1–3.
——, Oklahoma.—Munn, M. J., 2.
——, Puy-de-Dôme.—Bertrand, L., 4.
——, Ratzeburg.—Gagel, C., 2.
——, Somerset.—Cantrill, T. C., 4.
——, Spain.—Lozano, R. S.
——, Switzerland.—Schalch, F.
——, Transvaal.—Sawyer, A. R.
Borings, Western Australia. — Woodward, H. P., 7 & 9.
——, West Virginia.—White, I. C., 2.
——, Wiltshire.—Jukes-Browne, A. J., 3.
Borneo.—Martin, K.; Rutten, L.
Bornholm I. (Baltic). — Callisen, K.; Malling, C.
Bornite.—Graton, L. C.; Kraus, E. H.; Mennell, F. P.; Ray, J. C.; Turner, H. W., 2.
Boron in mineral waters. — Fonzes-Diacon, H.
Boroviczia.—Nathorst, A. G., 4.
Börringe (Sweden).—Holst, N. O.
Boschveld, *see* Bushveld.
Bosnia.—Katzer, F.; Schubert, R.; Toula, F.
Bosq (Calvados).—Dollfus, G. F., 3.
Bosrück Tunnel (Austria).—Geyer, G.
Boston Basin (Mass.).—Lahee, F. H.
Botany Bay (N.S.W.).—Halligan, G. H., 2.
Bothnia, Gulf of.—Liden, R.
Bothrodendron.—Johnson, T., 2.
Bothrophyllum.—Licharev, B.
Bouches-du-Rhône (France).—Haug, E., 2 & 3; Kilian, C. C. W., 5.
Boulder Batholith, Montana.—Knopf, A., 2; Lawson, A. C., 3.
Boulder-clay, Essex.—Irving, A., 4.
—— ——, Rhenish Prussia.—Wunstorf, W.
—— ——, Suffolk.—Boswell, P. G. H., 2.
—— ——, Wirral.—Walker, W. T.
—— ——. *See also* Drift, Glaciation, *&c.*
Boulder County (Colorado).—Jennings, E. P.
Boulders, Essex.—Salter, A. E.
——, New Mexico.—Rich, J. L.
——, Styria.—Hilber, V., 3; Jæger, R.
——, Umbria.—Verri, A., 2.
——, Warwickshire.—Lapworth, C.
——, rolled, & åsar.—Philipp, H.
——, flattening of, by solution.—Udden, J. A.
——, transportation of.—Mantle, H. G.
Boulonnais (France).—Sauvage, H. E., 1 & 2.
Boundary District (B.C.).—Le Roy, O. E.
Bourbonne-les-Bains (Haute-Marne).—Gardet, G.
Bourguetia.—Dareste de la Chavanne, J.
Bournemouth (Hampshire).—Morris, D.
Bournonite.—Grill, E.
Bournville (Warwickshire).—Lapworth, C.
Bou-Taleb (Algeria).—Savornin, J.
Bovard (Nevada).—Schrader, F. C., 1 & 3.
Boxelder County (Utah).—Carpenter, E.
Brabant, Noord (Holland).—Tesch, P.
Brachiopoda, Carboniferous.—Kozlovski, R.; Krenkel, E.; Mansuy, H., 1 & 3; Meyer, H. L. F., 2; Pruvost, P., 5; Thomas, I.

Brachiopoda, Cretaceous. — Burwash, E. M.; Etheridge, R., *fil.*; Jacob, C., 2; Jeannet, A.; Nielsen, K. B.
——, Devonian.—Asselbergs, E.; Clarke, J. M.; Douglas, J. A.; Frech, F., 2; Fuchs, A.; Jukes-Browne, A. J., 4; Liebrecht, F.; Mansuy, H.; Pæckelmann, W.; Pirsson, L. V., 3; Pruvost, P., 4; Quiring, H., 2; Schmidt, W. E.
——, Eocene.—Dickerson, R. E., 2.
——, Jurassic. — Buckman, S. S., 2; Jeannet, A.; Jukowski, E.; Renz, C., 2.
——, Lias.—Vadasz, M. E.
——, Ordovician. — Burling, L. D.; Foerste, A. F.; Wilson, A. E., 2.
——, Palæozoic.—Mansuy, H., 3.
——, Permian.—Licharev, B.
——, Permo-Carboniferous. — Douglas, J. A.; Mansuy, H., 2.
——, Portlandian.—Jacob, C., 2.
——, Silurian.—Burling, L. D.; Chapman, F., 7; Mansuy, H.; Williams, H. S.; Wilson, A. E.
——, Triassic.—Böhm, J.; Diener, C.; Mansuy, H.; Renz, C., 4; Seidlitz, W. von; Smith, J. P.
——, enclosing sediments of.—Burling, L. D.
Brachyaspis.—Raymond, P. E., 3.
Brachyceratops.—Gilmore, C. W.
Brachylepas.—Withers, T. H., 3.
Brachyodus.—Pilgrim, G. E.
Brachyphyllum.—Berry, E. W., 5.
Brachytherium.—Rovereto, G., 4.
Brachytrema.—Jukovski, E.
Braintree (Mass.).—Raymond, P. E., 7.
Bramford (Suffolk).—Moir, J. R., 2.
Branchiopoda, Trias.—Cantrill, T. C.
Brandenburg (Prussia).—Ascherson, P.; Korn, J., 3.
'Brandschiefer,' Kuckers.—Born, A.
Brazil.—Betim Paes Leme, A.; Brauns, R., 4; Harder, E. C.; Lisboa, M. R.; Maury, C. J.; Waring, G. A.; Washington, H. S., 2.
'Breadcrust bomb,' Santorin I.—Kichler, L.
Breccia, Algeria.—Rauw, H. de.
——, Savoy.—Kilian, C. C. W., 2.
——, Tarentaise.—Gignoux, M.; Pussenot, C.
——, Tasmania.—Nœtling, F., 2.
Brèche-au-Diable (Calvados).—Bigot, A., 1 & 8.
Brege R. (Baden).—Buri, T.
Breislakite.—Panichi, U.
Brenta Group (Tyrol).—Schwinner, R.
Brentwood (Essex).—Davies, G. M.
Briançon (Hautes-Alpes).—Kilian, C. C. W., 4.
Brick-earth, Suffolk.—Boswell, P. G. H., 2.
Britannia United Mine, Ballarat. — Baragwanath, W., 2.
Britanny.—Azéma, —, 3 & 4; Nicou, P.; Priem, F.
British Columbia.—Allan, J. A.; Bateman, A. M., 1 & 2; Bancroft, J. A.; Bowen, N. L., 2; Burwash, E. M., 2; Camsell, C., 1 & 2; Clapp, C. H., 2–4; Daly, R. A., 2; Drysdale, C. W.; Le Roy, O. E.; McConnell, R. G., 1–5; Malloch, G. S., 1 & 2; Ries, H., 2–4; Robertson, W. F.; Rose, B.; Schofield, S. J., 1–3; Wilson, W. J.
British Columbia. *See also* BRITISH COLUMBIA.
British East Africa.—Oswald, F.; Parkinson, J.
British Guiana.—Harrison, J. B., 1–3.
British Isles, interglacial periods in.—Lamplugh, G. W.
——, erratics of.—*See* BRITISH ASSOCIATION COMMITTEE, 2.
——, peneplanation in.—Travis, C. B., 3.
——, stone-boiling in.—Cantrill, T. C., 2.
——. *See also* England, Fife, *&c.*
Broad Arrow (Goldfield, W. Australia). —Jutson, J. T.
Broadback R. (Quebec).—Cooke, H. C.
Brodiceras.—Schirardin, J.
Broiliellus.—Williston, S. W.
Broken Hill (S. Austr.).—Mawson, D., 2.
Broken Hill Lode (N.S.W.). — Donaldson, R. J.
Bromberg Canal (Prussia).—Kuwert, F.
Bronteopsis.—Reed, F. R. C., 4.
Brontotherium.—Osborn, H. F., 9.
Broomia.—Watson, D. M. S., 5.
Brosso (Piedmont).—Grill, E., 1 & 2.
Bruck am Mur (Styria).—Gaulhofer, K.
Bruneck (Tyrol).—Meusburger, K.
Brünn (Moravia).—Rzehak, A.
Brunswick.—Harbort, E.; Schmidt, E. W.; Schmierer, T., 2; Uhlig, J., 1 & 2.
Brusztura (Hungary).—Posewitz, T.
Bryozoa.—*See* Polyzoa.
Bucania.—Mansuy, H.
Buccinum.—Harmer, F. W.; Martin, B.
Buckinghamshire.—Davies, G. M.
Buckland R. Valley (Victoria).—Dunn, E. J., 14.
Budsin (Posen).—Cramer, R.
BUFFON's double-refraction theory.—Bruhl-Metzger, H.
Bufo.—Moodie, R. L.
Bugti Hills (Baluchistan). — Pilgrim, G. E.
Building-stones, Australian Federal Territory.—Mahony, D. J., 2.
——, Limburg.—Keuller, L.
——, New Zealand.—Thomson, J. A., 3.
——, Norway.—Oxaal, J.
——, Quebec.—Parks, W. A.
Buk (Posen).—Korn, J., 4.
Bulacan (Philippine Is.).—Dalburg, F. A.; Eddingfield, F. T.
Bulgaria.—Scott, H. K.
Bulinus.—Chapman, F., 6.
Bulla.—Stefani, C. de.
'Bull-head' Bed, Suffolk.—Moir, J. R., 2.

Bumastus.—Raymond, P. E., 2.
Bumble Hole (Worcestershire).—Cantrill, T. C., 3.
Bungo Province (Japan).—Kozu, S.
Buñol (Valencia).—Aravaca, M. A.
Bunter Sandstone, Baden.—Schnarrenberger, K.
—— ——, Midlands.—Matley, C. A.
—— ——, Staffordshire.—Cantrill, T. C.
Burbanks (W. Australia).—Blatchford, T. A., 2.
Burma.—Bion, H. S.; Brown, J. C.; Cotter, G. de P.; La Touche, T. H. D.; Michel, H., 4; Pascoe, E. H.; Reed, F. R. C.
Burnsall (Yorks.).—Hawkesworth, E.
Burntisland (Fife).—Flett, J. S., 2.
Bursa.—Smith, W. D.
Burtoa.—Oswald, F.
Buru (D.E.I.).—Seidlitz, W. von.
Bushman R. (Cape Province).—Schwarz, E. H. L., 2.
Bushveld (Transvaal).—McDonald, D. P., 6.
Bushveld Complex.—Hall, A. L., 2 & 3; Humphrey, W. A., 3.
Butte (Montana).—Lawson, A. C., 3; Ray, J. C.; Rogers, A. F., 2.
Buxton County (S. Australia).—Jack, R. Lockhart, 2.
Byssonychia.—Foerste, A. F.
Byssopteria.—Mansuy, H., 3.
Bythinella.—Brown, A. P., 2.

Cacops.—Williston, S. W., 2.
Cadomia.—Douvillé, H.
Cadurcotherium.—Pilgrim, G. E.
Caen (Calvados).—Bigot, A., 3 & 6.
Cænophilus.—Rovereto, G., 4.
Cæsalpinia.—Berry, E. W., 5.
Cahokia Mound (Illinois).—Bushnell, D. I.; Crook, A. R.
Caillite.—Meunier, S., 2.
Cairo Museum, stone-implements in.—Currelly, C. T.
Caithness.—Crampton, C. B.
Calabogie (Ontario).—Lindeman, E., 4.
Calabona (Sardinia).—Manasse, E.
Calabria (Italy).—Campana, D. del, 3; Chelussi, I., 4; Stefano, G. de, 2.
Calamitea.—Jongmans, W., 3.
Calamites.—Kidston, R.
Calamophyllia.—Kranz, W.; Zuffardi, P., 2.
Calamostachys.—Kidston, R.
Calantica.—Withers, T. H., 1 & 3.
Calaveras Valley (California).—Rogers, A. F., 3.
Calcarina.—Rutten, L., 2.
Calcite.—Bowman, H. L.; Cayeux, L., 3; Foote, H. W.; Johnsen, A.; Kræmer, R.; Laubmann, H.; Merwin, H. E.; Pisani, F.
Calcium-carbonate, bacterial precipitation of.—Drew, G. H.; Kellerman, K. F.
—— —— deposits, sea-water &.—Dole, R. B.
California (U.S.A.).—Arnold, R., 1 & 3; Bryant, H. C., 1 & 2; Buwalda, J. P; Chandler, A. C.; Dickerson, R. E., 1–3; Diller, J. S., 1 & 3; Eakle, A. S.; English, W. A.; Ferguson, H. G.; Gale, H. S., 2, 3, 5–7; Gester, G. C.; Knopf, A., 3 & 4; Lull, R. S.; Martin, B.; Merriam, J. C., 1–6; Miller, L. H.; Pack, R. W.; Phalen, W. C.; Rogers, A. F., 3; Stock, C.; Turner, H. W., 2; Waring, C. A.; Wittich, E.; Wood, B. D.
Calker, F. J. P. van, *Obit.*—*See* Anon., 3.
Callianassa.—Smith, W. D.
Calliderma.—Spencer, W. K.
Callipteridium.—Seward, A. C.
Callipteris.—Zalessky, M. D.
Callovian, Uri.—Arbenz, P.
Calvados (France).—Bigot, A., 1, 3, 6, 8, & 9; Cayeux, L., 4; Dollfus, G. F., 3; Douvillé, R., 3.
Calvinella.—Walcott, C. D.
Calycanthocrinus.—Schmidt, W. E.
Calycites.—Berry, E. W., 5; Menzel, P.
Calymene.—Foerste, A. F.
Calyptræa.—Chapman, F., 13.
Camarasaurus.—Huene, F. von, 9; Mook, C. C.
Camarocrinus.—Reed, F. R. C.
Camarophoria.—Kozlovski, R.; Licharev, B.; Mansuy, H., 2.
Camarotœchia.—Pæckelmann, W.
Camborne (Cornwall).—Lees, P. B.
Cambrian, Belgium.—Anten, J., 2.
——, Calvados.—Bigot, A.
——, China.—Walcott, C. D., 2.
——, Missouri.—Lee, Wallace.
——, Newfoundland.—Van Ingen, G.
——, New York.—Cushing, H. P.
——, Normandy.—Bigot, A., 9.
——, North-American Cordillera.—Burling, L. D., 2.
——, Nova Scotia.—Malcolm, W.
——, Ottawa.—Kindle, E. M., 5.
——, Ross-shire.—Peach, B. N., 2.
——, Sardinia.—Novarese, V.
——, Shan States.—La Touche, T. H. D.
——, Shropshire.—Cobbold, E. S.
——, Sweden.—Törnquist, S. L.
——, Toledo.—Mallada, L.
——, Warwickshire.—Illing, V. C., 1–3.
Cambridge.—Hooley, R. W.; Withers, T. H., 1 & 4.
Cambridgeshire.—Hughes, T. McK.
Camelops.—Hay, O. P., 2.
Camerino (Marches).—Ugolini, R.

Cameroons (Africa).—Kœrt, W.; Mann, O.
Camonica, Val (Lombardy). — Cacciamali, G. B.
Campania (Italy).—Galdieri, A., 2 & 3.
Campanile.—Leriche, M.
Campiglia (Tuscany).—Symons, B.
Campo a' Peri (Elba).—Millosevich, F.
Campobasso (Italy).—Chelussi, I., 2.
Campophyllum.—Mansuy, H.
Campotosto (Abruzzi).—Pullé, G.
Campsie Fells (Stirlingshire).—Gregory, J. W.
Camptonectes.—Etheridge, R., *fil.*
Camptonite.—O'Neill, J. J.; Watson, T. L., 2.
Camptosaurus.—Huene, F. von, 9.
Campylognathus.—Huene, F. von, 6 & 7.
Can R. (Essex).—Thompson, P. G.
Canada, borehole records of. — Ingall, E. D.
——, gypsum- & salt-industries of. — Cole, L. H.
——, mica in.—Schmid, H. S. de, 2.
——, mineral production of. — Cartwright, C. T.; McLeish, J., 1–5.
——, mineral resources of.—*See* CANADA, 3.
——, pyrites & copper in. — Wilson, A. W. G.
——, Pre-Cambrian of.—Coleman, A. P.
——, Quaternary of.—Lory, P.
——, Transcontinental excursion.—Cole, L. H., 2; Le Roy, E. O., 2; Wolff, W., 2.
——. *See also* CANADA, Geological Survey & Department of Mines.
Canadian R. (Oklahoma). — Schwennesen, A. T., 2.
Canadite.—Quensel, P., 3.
Canary Is.—Perret, F. A., 2.
Canberra (Australia).—Mahony, D. J., 2; Taylor, G.
Cancellaria.—English, W. A.
Cancrinite.—Zambonini, F.
Candona.—Chapman, F., 6.
Caninia.—Delépine, G.
Canis.—Campana, D. del; Freudenberg, W.
Cannonball beds.—Lloyd, E. R.
Cantal (France).—Gonnard, F., 2.
Canterbury (N.Z.).—Gudex, M. C.
Canyon Diablo (Arizona).—Keyes, C. R., 3.
Cape Province (S. Africa).—Broom, R., 10; Du Toit, A. L., 1 & 2; McDonald, D. P., 3; Schwarz, E. H. L., 1–3; Shand, S. J., 2; Young, R. B.
Cape Schanck (Victoria). — Chapman, F., 9.
Capillarity, vulcanism and.—Johnston, J., 1 & 2.
Capitanata (Campania).—Checchia-Rispoli, G.
Capitosaurus.—Schrœder, H.; Wiman, C.
Capra & Capreolus. — Freudenberg, W.
Capromeryx.—Chandler, A. C.
Caprovis.—Freudenberg, W.
Capulus.—Tommasi, A.
Caradoc (Shropshire).—Cobbold, E. S.
Carbonates, secondary sulphide enrichment and.—Nishihara, G. S.
Carbonic acid in springs.—Pfaff, F. W., 2.
Carbonic-acid gas in coal-mines. — Werne, —.
Carboniferous, Argentine. — Bodenbender, G.
——, Belgium. — Andrimont, R. d'; Renier, A.; Salée, A., 2.
——, Bohemia.—Hummel, K.
——, Bolivia.—Kozlovski, R.; Meyer, H. L. F., 2.
——, Catalonia.—Pruvost, P., 5.
——, Chile.—Anon., 42; Brüggen, J., 3.
——, Clare I.—Cole, G. A. J., 3.
——, Cornwall.—Dewey, H.
——, Derbyshire.—Gibson, W.
——, Edinburgh.—Flett, J. S., 2; Macconochie, A.
——, Fifeshire.—Benson, M. J.
——, Glasgow district.—Macnair, P.
——, Hainault.—Delépine, G.
——, Ille-et-Vilaine.—Bézier, T., 2.
——, Japan.—Deprat, J., 6.
——, Kent.—Arber, E. A. N., 7.
——, Kentucky. — Jeffrey, E. C., 4; Munn, M. J., 3.
——, King's County.—Haigh, W. D.
——, New Brunswick.—Keele, J.
——, Nova Scotia.—Bell, W. A.; Hyde, J. E.
——, Peru.—Meyer, H. L. F., 2.
——, Rhodesia.—Maufe, H. B.; Lightfoot, B.
——, Russia.—Varsanofieva, V. A.
——, Saxony.—Schlechtendal, D. von.
——, Scotland.—Smith, J.
——, Spain.—Lozano, R. S.
——, Staffordshire.—Kidston, R.; King, W. W.
——, Styria.—Gaulhofer, K.
——, Turkestan.—Krenkel, E.
——, Utah.—Peterson, W.
——, Westmorland.—Garwood, E. J.
——, Westphalia.—Gothan, W.
——, Wyoming.—Schultz, A. R.
——, Yorkshire.—Bisat, W. S.
——, Yunnan.—Brown, J. C., 3.
Carcharoides.—Chapman, F., 11.
Carcinophyllum.—Salée, A., 2.
Cardinia.—Dareste de la Chavanne, J.
Cardiocarpus. — Arber, E. A. N., 3 & 5.
Cardioceras.—Pavlov, A. P.
Cardiomys.—Rovereto, G., 4.
Cardiopteridium.—Nathorst, A. G., 4.
Cardiotherium.—Rovereto, G., 4.
Cardita.—Chapman, F., 13; Dollfus, G. F., 9; Jeannet, A.; Smith, W. D. Stefani, C. de.

Cardium.—Dollfus, G. F., 9.; Jukovski, E.; Smith, W. D.
Carinthia (Austria).—Teller, F.; Winkler, A., 3.
Carlisle-Solway Basin.—Gregory, J. W., 4 & 9.
Carnarvonshire.—Cox, A. H., 3; Nicholas, T. C., 1 & 2.
Carniola (Austria).—Kossmat, F., 1–3; Teller, F.; Winkler, A., 3.
Carnites.—Krauss, H.
Carnivora, aquatic adaptation in.—Taylor, W. P.
Carnotite.—Hess, F. L.
——, radium : uranium ratio in.—Lind, S. C.
Carolina (U.S.A.).—Berry, E. W., 5; Pratt, J. H.; Stephenson, L. W., 3.
Carolina (Transvaal).—Hall, A. L.
Carpathian Mts.—Liffa, A.; Posewitz, T., 3.
Carpenteria.—Rutten, L., 2.
Carpolago (Croatia).—Koch, F.
Carpolithes.—Carpentier, A., 2; Menzel, P.; Nathorst, A. G., 4.
Carrick Hills (Ayrshire).—Tyrrell, G. W.
Carrizo Creek (California).—Kew, W. S. W.
Carrizo Plain (California).—Gale, H. S., 5.
Carruthersella.—Salée, A., 2.
Carya.—Menzel, P.
Carychium.—Harmer, F. W.
Carydium.—Fuchs, A.
Caryophyllia.—Smith, W. D.
Casala, Mte. del (Sicily).—Fucini, A.
Casalina (Perugia).—Canavari, I.
Casarza (Liguria).—Riva, P.
Casea.—Williston, S. W., 2 & 3.
Cassia County (Idaho).—Bowen, C. F., 2.
Cassianella.—Tommasi, A.
Cassidaria.—Harmer, F. W.; Smith, W. D.
Cassidulus.—Fourtau, R.
Cassis.—Smith, W. D.
Cassis (Bouches du Rhône).—Kilian, C. C. W., 5.
Cassiterite, Transvaal.—McDonald, D. P., 1 & 4; Recknagel, R.
Castanea.—Berry, E. W., 5.
Castelgomberto (Venetia).—Kranz, W.
Castellane (Basses-Alpes).—Guébhard, A., 1–3.
Casteroides.—Smith, Burnett.
Castiglioncello (Tuscany).—Achiardi, G. d'.
Castocrinus.—Wood, E.
Castor.—Hinton, M. A. C.
Casuarina.—Chapman, F., 12.
Catahoula Sandstone.—Goldman, M. I.
Catalonia (Spain).—Chevalier, M.; Dalloni, M., 2; Jacob, C., 3; Pruvost, P., 5.
Cataract formation, New York & Ontario.—Schuchert, C., 6.
Caterham (Surrey).—Davies, G. M.
Catophragmus.—Withers, T. H., 3.
Catskill Creek (N.Y.).—Chadwick, G. H.
—— formation, Pennsylvania.—Van Tuyl, F. M., 2.
—— Mts. (N.Y.).—Berkey, C. P.; Rich, J. L., 2.
Caucasus.—Arschinow, W. W.; Oswald, F., 2; Zuffardi, P., 2.
Caudano cave (Italy).—Sacco, F., 6.
Cauvery Reservoir (Mysore).—Balaji Rao, B.
Cave Commission, Hungarian Geological Society.—Kadič, O.
Cave-deposit, Maryland.—Gidley, J. W.
Caverns & Caves, Belgium.—Rahir, C.
——, Berne.—Martel, E. A.
——, Connecticut.—MacCurdy, G. G.
——, Devon.—Hunt, A. R.; TORQUAY NATURAL HISTORY SOCIETY.
——, Fife.—Jehu, T. J., 2.
——, Hungary.—Ehik, J.; Hillebrand, E.
——, Italy.—Sacco, F., 6.
——, Jura.—Fournier, E., 3.
——, Kentucky.—Hovey, H. C.; Martel, E. A., 3.
——, Missouri.—Lee, Wallace.
——, Somerset.—Balch, H. E.; Keith, A., 4.
——, Spain.—Galvez-Cañero, A. de; Garin y Modet, J.
——, Worcestershire.—Cantrill, T. C., 3.
——, Yonne.—Thierry, H.
Caviodon.—Rovereto, G., 4.
Cayton Bay (Yorks.).—Thomas, H. Hamshaw.
Cebollite.—Larsen, E. S., 5.
Cebu (Philippine Is.).—Pratt, W. E., 2.
Celadonite.—Levi, G.
Celastrophyllum.—Berry, E. W., 5.
Celebes (D.E.I.).—Brouwer, H. A.; Rutten, L.; Wanner, J.
Celestite.—Phalen, W. C.
Celtis.—Kristofovič, A.
Celtites.—Mansuy, H.; Smith, J. P.
Cement, New Zealand.—Morgan, P. G., 2.
——, Philippine Is.—Pratt, W. E., 2.
——, Washington.—Shedd, S.
Cenomanian, Cambridge.—Withers, T. H., 1 & 4.
——, Indre-et-Loire.—Lecointre, G.
——, Pomerania.—Schulte, L., 2.
——, Saxony.—Pietzsch, K.
Cenosphæra.—Smith, W. D.
Centerville (Iowa).—Kay, G. F.
Central Provinces (India).—Fox, C. S.
Centrephyllum.—Salée, A., 2.
Centronella.—Fuchs, A.
Cephalogale.—Pilgrim, G. E.
Cephalopoda, Carboniferous.—Dollé, L.; Hind, W.; Pruvost, P., 5.

Cephalopoda, Cretaceous.—Burwash, E. M.; Etheridge, R., *fil.*: Kilian, C. C. W., 5; Pavlov, A. P.; Yabe, H.; Zwierzycki, J., 1 & 2.
——, Devonian.—Frech, F.; Henke, W.; Jukes-Browne, A. J., 4; Leidhold, C., 2; Liebrecht, F.; Pæckelmann, W.; Pruvost, P., 4; Renz, C.
——, Eocene.—Dickerson, R. E., 2.
——, Jurassic.—Buckman, S. S.; Douglas, J. A.; Douvillé, R., 2 & 3; Jukovski, E.; Lœsch, K. C. von; Martin, K.; Pavlov, A. P.; Renz, C., 2; Zwierzycki, J.
——, Liassic.—Dareste de la Chavanne, J.; Meister, E.; Schirardin, J.; Schmidt, E. W.; Spath, L. F.; Thompson, C.; Vadasz, M. E.
——, Ordovician.—Foerste, A. F.
——, Palæozoic.—Mansuy, H., 3.
——, Permian.—Licharev, B.
——, Silurian.—Chapman, F., 8.
——, Tertiary.—Lotz, H.; Struebin, K.
——, Triassic.—Böhm, J.; Diener, C.; Krauss, H.; Mansuy, H.; Smith, J. P.; Tommasi, A.; Toula, F.
Cephalotaxospermum.—Berry, E. W., 5.
Ceram I. (D.E.I.).—Deninger, K.
Cerastus.—Oswald, F.
Ceratites.—Diener, C.; Mansuy, H.; Smith, J. P.; Toula, F.
Ceratodes.—Jodot, P., 2.
Ceratophrys.—Rovereto, G., 4.
Cerithiacea.—Cossmann, A. E. M.
Cerithinella.—Cossmann, A. E. M.
Cerithiopsis.—Nelli, B.
Cerithium.—Bucher, W.; Dickerson, R. E., 2; Holdhaus, K.; Smith, W. D.; Stephani, C. de.
Ceromyopsis.—Rollier, L.
Cerro de Santa Ana (Venezuela).—Bendrat, T. A.
Cerussite.—Hunter, J. F., 2; Kræmer, R.
Cervus.—Freudenberg, W.; Joleaud, L.; Stokes, H.
Césareda (Portugal).—Lambert, J.
Cetina Valley (Dalmatia).—Kerner, F. von.
Ceyssatite.—Gonnard, F., 2.
Chabra (Rajputana).—Christie, W. A. K.
Chacay Melehué (Argentina).—Jaworski, E., 2.
Chalcocite.—Graton, L. C.; Rogers, A. F., 2; Turner, H. W., 2.
Chalcophanite.—Ford, W. E.
Chalcopyrite.—Graton, L. C.; Ray, J. C.; Thompson, A. P.
Chalk, Denmark.—Faber, H.
——, Dorset.—Bowman, H. L.; Brydone, R. M., 2.
——, Essex.—Anon., 50.
——, Isle of Wight.—Brydone, R. M., 2.
Chalk, Kansas.—Sternberg, C. H.
——, Pas-de-Calais.—Meunier, S.
——, Suffolk.—Boswell, P. G. H.
——, Sussex.—Brydone, R. M., 2.
——, Western Australia.—Etheridge, R., *fil.*
——, Yonne.—Negre, G., 2.
Challow (Berks).—Davies, G. M.
Chalosse (Landes).—Lambert, J., 4.
Chama.—Dollfus, G. F., 9.
Champagne (France).—Laurent, J.
Channagiri (Mysore).—Slater, H. K.
Channarayapatna (Mysore).—Raghavendra Rao, S.
Channel Tunnel.—Bellet, D.; Hawkshaw, J. C.
Chapalmalania & *Chapalmatherium.*—Rovereto, G., 4.
Charente (France).—Douvillé, H., 2.
—— Inférieure (France).—Welsch, J., 1 & 2.
Charleston (N.Z.).—Bartrum, J. A., 2.
Charlton (Kent).—Davies, G. M.
Charmouth (Dorset).—Lang, W. D., 3.
Charters Towers Goldfield (Queensland).—Marks, E. O.
Chartres (Charente - Inférieure).—Welsch, J., 2.
—— (Eure-et-Loir).—Ramond, G.
Chasmosaurus belli.—Lambe, L. M., 3.
Château - Landon (Seine - et - Marne).—Lemoine, P., 2.
Châteaubriant (Loire-Inférieure).—Kerforne, F., 4.
Châtelet (Hainault).—Bertiaux, A., 2.
Châtillon - sur - Seine (Côte d'Or).—Collot, L.
Chatsbury (N.S.W.).—Carne, J. E.
Chechma R. (Samara).—Netchaiev, A.
Cheirotherium.—Watson, D. M. S., 14.
Cheirurus.—Reed, F. R. C., 4.
Cheliabinsk (Orenburg).—Kracheninnikov, H. M., 1 & 2.
Chelonia.—Watson, D. M. S., 6.
Cheltenham (Glos.).—Richardson, L., 4.
Chemnitzia.—Mansuy, H.
Chenendopora.—Smith, W. D.
Cheras (Malay Penin.).—Jones, W. R.
Cheremchan R. (Samara).—Nechaiev, A.
Chernomorsk (Russia).—Karakas, N. I.
Chernychev, T. N., *Obit.*—*See* Anon., 4; Geer, G. de, 3; Karpinskii, A. P.; Kayser, E., 3; Strahan, A., 2.
Chert, Essex.—Thompson, P. G., 2.
——, Tasmania.—Nœtling, F., 2.
——, origin of freshwater.—Stopes, M. C., 2.
Cherwell Flats (N.Z.).—Thomson, J. A., 2.
Chesapeake Bay (Maryland).—Hunter, J. F., 3.
Chesham (Bucks).—Davies, G. M.
Cheshire.—Beasley, H. C., 1-3; Maidwell, F. T.; Strahan, A.; Travis, C. B., 2; Walker, W. T.

Cheshire (Connecticut).—Ward, F.
Chesterford (Essex).—Anon., 50.
Chettaba (Algeria).—Joleaud, L., 3.
Cheyenne R. Indian Reservation (Dakota).—Calvert, W. R.
Chhindwara District (Central Provinces).—Fox, C. S.
Chiastolites, S. Australia. — Mawson, D.
Chiemgau Alps (Bavaria).—Broili, F., 2.
Chignal-at-James (Essex).—Anon., 51.
Chile.—Anon., 42; Brüggen, J., 1-4; Douglas, J. A.; Fuchs, F. G.; Jaworski, E., 2; Sundt, L.; Vattier, C.; Willis, B., 2.
Chilko Lake (B.C.).—Bateman, A. M.
Chilotrypa.—Meyer, H. L. F., 2.
Chiltern (Victoria).—Dunn, E. J., 9.
Chiltern Hills.—Gregory, J. W., 8.
Chimneyhill formation, Oklahoma. — Reeds, C. A.
China.—Deprat, J., 6-10; Frech, F., 2; Gastaldi, E.; Walcott, C. D., 2; Weld, C. M.
Chindwin R. (Burma).—Bion, H. S.
Chiniot Hills (Punjab).—Heron, A. M.
Chione.—English, W. A.; Smith, W. D.
Chipping Camden (Worcestershire). — Richardson, L., 2.
Chiraki (Transcaucasia).—Riabinin, A.
Chitina Valley (Alaska).—Brooks, A. H.
Chlamydotherium.—Rovereto, G., 4.
Chlamys.—Smith, W. D.
Chlomos Mt. (Greece).—Renz, C., 4.
Chlorocalcite.—Zambonini, F.
Cho-Bo (Tongking).—Deprat, J., 9.
Chomataster.—Spencer, W. K.
Chonetes.—Kozlovski, R.; Licharev, B.; Mansuy, H., 2 & 3.
Choptank R. (Maryland).—Hunter, J. F., 3.
Chromite, Quebec. — Dresser, J. A.; Krusch, P., 3.
Chrysocolla.—Umpleby, J. B., 4.
Chrysodomus.—Martin, B.
Chrysotile.—Julien, A. A., 2.
Chunumayo (Peru).—Jaworski, E., 2.
Cidaris.—Jukovski, E.; Dickerson, R. E., 2.
'Cincinnatic' System, SCHUCHERT'S.—Ulrich, E. O., 2.
Cinnamomum.—Berry, E. W., 5.
Cinulia.—Stefani, C. de.
Ciply tufa.—Leriche, M.
Ciran (Indre-et-Loire).—Lecointre, G.
Circeo, Cape (Latium).—Moderni, P.
Cirencester (Glos.).—Hibbert, T.
Cirques.—Pavlov, A. P., 2.
——, New Hampshire. — Goldthwait, J. W.
——, Stirlingshire.—Gregory, J. W.
Cirripedia, Cretaceous.—Etheridge, R., *fil.*; Withers, T. H., 1-4.
——, Silurian.—Moberg, J. C.
——, Tertiary.—Withers, T. H., 3.
Cissites.—Kristofovič, A., 2.
Cistocarpum.—Menzel, P.
Citellus.—Ehik, J.
Cladodidelphys.—Rovereto, G., 4.
Cladophlebis. — Knowlton, F. H., 3; Yabe, H., 2.
Clairmarais (Pas-de-Calais). — Gosselet, J., 2.
Clare I. (Co. Mayo).—Cole, G. A. J., 3.
Clarence Valley (N.Z.).—Cotton, C. A.
Clark County (Nevada).—Hill, J. M., 2.
Clathrodictyon.—Chapman, F., 8.
Claude, Mt. (Tasmania).—Twelvetrees, W. H.
Clavagella.—Vincent, E.
Clavigera.—Thomson, J. A.
Clay.—Worth, R. H.
——, Canada.—Ries, H., 2, 3, & 5.
——, Charente-Inférieure.—Welsch, J.
——, Gloucestershire.—Richardson, L., 4.
——, Malay Peninsula. — Scrivenor, J. B.
——, Montana.—Bauer, C. M.
——, New Brunswick.—Keele, J.
——, Nova Scotia.—Faribault, E. R., 3.
——, Paris Basin.—Dollfus, G. F., 5 & 7; Lacroix, A., 10.
——, Quebec.—Keele, J., 2.
——, Washington.—Shedd, S.
——, Western Australia. — Honman, C. S.
——, allophanoid.—Aarnio, B.
——, aluminium hydrates in.—Edwards, M. G.; Ries, H.
—— in coal-mines.—Mellor, J. W.
——, origin & nature of.—Keele, J.
——, prismatic structure of. — Longchambon, M., 6.
—— -ironstone, Rhenish Prussia.—Reis, O. M., 3.
—— -silicates, colloid. — Gans, R.; Stremme, H.; Wiegner, G.
——. *See also* Fire-clay.
Clay-with-flints.—Jamieson, A. W.
Claygate (Surrey).—Davies, G. M.
Claystones, Rhenish Bavaria.—Schuster, M.
Cleat in coal-seams.—Kendall, P. F., 2.
Cleavage, primary.—Weber, M.
Clementia.—Smith, W. D.
Cleopatra.—Oswald, F.
Cleveland Shale, Ohio.—Burroughs, W. G.
Cliffs, Dorset.—Lang, W. D., 3.
Climaconeura.—Pruvost, P., 6.
Climate, changes of.—Huntington, E., 2.
——, fossil plants and.—Seward, A. C., 2.
——, geological. — Gregory, J. W., 5; Huntington, E., 1 & 3; Kendall, P. F., 3.
——, oscillations of.—Case, E. C., 2.
——, Palæolithic.—Petrie, W. M. F.
——, post-glacial.—Hägg, R.

Climate, Quaternary.—Keidel, H., 2; Lang, R.
——, Tertiary.—Kerner, F. von, 2.
Climatic belts, shifting of.—Penck, A., 3.
Clinozoisite.—Millosevich, F.
Clinton iron-ore, Kentucky & Tennessee.—Whinery, S.
—— ——, Wisconsin.—Thwaites, F. T.
Clisiophyllidæ.—Salée, A., 2.
Clisiophyllum.—Salée, A., 1 & 2.
Clitambonites.—Foerste, A. F.
Clodoxylon.—Bertrand, P., 3.
Closepet (Mysore).—Jayaram, B.
Clymenia.—Pruvost, P., 4.
—— -Limestone, Silesia.—Renz, C.
Clypeaster.—Lambert, J., 3; Lovisato, D., 2.
Clypeina.—Morellet, L.
Clytiopsis.—Bill, P. C.
Coal, Belgium.—Anon., 49.
——, British Columbia.—Clapp, C. H., 2 & 3.
——, Bulgaria.—Scott, H. K.
——, Canada.—McLeish, J., 3.
——, Chile.—Brüggen, J., 3.
——, Congo Belge.—Ball, S. H.
——, Idaho.—Bowen, C. F.
——, Montana.—Pardee, J. T.; Rogers, G. S.
——, Nevada.—Hance, J. H.
——, New Zealand.—Morgan, P. G., 1 & 4; Thomson, J. A., 2.
——, Oregon.—Diller, J. S., 2.
——, Philippine Is.—*See* PHILIPPINE Is.
——, Queensland.—Cameron, W. E., 1 & 2; Dunstan, B.
——, Rhodesia.—Maufe, H. B.; Mennell, F. P.
——, Saxony.—Beger, P. J., 2.
——, Somerset.—Cantrill, T. C., 4.
——, Spitsbergen.—Berr, R.
——, Texas.—Phillips, W. B., 2.
——, Tongking.—Deprat, J., 7.
——, United States.—Anon., 43.
——, Victoria.—Dunn, E. J., 6; Herman, H.
——, Washington.—Collier, A. J.
——, Western Australia.—Saint-Smith, E. C., 1 & 3; Simpson, E. S., 6.
——, Wyoming.—Schultz, A. R.; Wegemann, C. H.
——, constitution of.—Dubois, G.
——, deposition of.—Jeffrey, E. C., 3.
——, formation of.—Jeffrey, E. C., 2; Savage, T. E., 2.
——, microscopical examination of.—Lomax, J.
——, origin of.—Jeffrey, E. C.
——, pyritic.—Barrois, C., 2.
——, resins in.—White, D., 3.
——, underclays of.—White, D., 2.
Coal-beds, formation of.—Stevenson, J. J.
——, parting in.—Rogers, G. S., 2.
——. *See also* Anthracite, Lignite, *&c.*
Coal-Measures, Derbyshire.—Gibson, W.; Calman, W. T.
——, Kansas.—Twenhofel, W. H.
——, Kent.—Arber, E. A. N., 5.
——, Northern France.—Pruvost, P., 1–3, 7.
——, Somerset.—Bolton, H.
——, Wyre Forest.—Arber, E. A. N., 4.
——, Yorkshire.—Burnet, A.
——, underclays.—Chapman, S. E.
Coal-mines, clays in.—Mellor, J. W.
Coal-seams, cleat in.—Kendall, P. F., 2.
Coaldale coal-field, Nevada.—Hance, J. H.
Coalfields, Belgium.—Anon., 49; Gracht, W. A. J. M. van W. van der.
——, British Columbia.—Malloch, G. S.
——, Congo Belge.—Fourmarier, P.
——, Derbyshire.—Gibson, W.
——, Durham.—Prest, J. J.
——, Gard.—Werne, —.
——, Holland.—Gracht, W. A. J. M. van W. van der; Klein, W. C., 2.
——, Kent.—Arber, E. A. N., 5 & 7; Dawkins, W. B.; Krusch, P.
——, Leicestershire.—Vernon, R. D.
——, Midlands.—Meachem, F. G.
——, Montana.—Rogers, G. S.
——, Moravia.—Werne, —.
——, Nevada.—Hance, J. H.
——, New Mexico.—Lee, W. T.
——, Nord.—Barrois, C., 1 & 2; Bertrand, P.; Dubois, G.
——, Pas-de-Calais.—Dubois, G.; Montagne, P.
——, Silesia.—Werne, —.
——, Southern Rhodesia.—Lightfoot, B.
——, Spain.—Lozano, R. S.
——, Staffordshire.—Arber, E. A. N., 6; Clark, F. B.; Forrest, N.
——, Western Australia.—Simpson, E. S., 3.
——, Westphalia.—Gracht, W. A. J. M. van W. van der; Krusch, P.
——, Wyoming.—Wegemann, C. H.
——, Wyre Forest.—Arber, E. A. N., 4.
Coast-accretion, E. Prussia.—Tornquist, A.
Coast-erosion, Yorkshire.—Sheppard, T.
Coast-plain, Norwegian.—Högbom, A. G., 2.
Coastal subsidence, Massachusetts.—Johnson, D. W.
—— ——, New Brunswick.—Goldthwaite, J. W., 4.
—— ——, New England.—Davis, C. A., 2.
—— ——, botanical phenomena &.—Johnson, D. W., 3.
—— ——, precise levelling and.—Johnson, D. W., 2.
Coasts, Dorset.—Lang, W. D., 3.
——, East Prussia.—Brückmann, R.; Horn, M.; Tornquist, A.
——, English South.—César-Franck, R.
——, German S.W. Africa.—Lotz, H.

Coasts, Isle of Wight.—César-Franck, R., 2.
——, Patagonia.—Rovereto, G., 2.
——, Peru.—Lisson, C. I.
Cobalt, Canada.—Cartwright, C. T.
——, Ontario.—Krusch, P., 3.
Cobalt (Ontario).—Graham, R. P. D., 2; Krusch, P., 3.
Cobalt-nickel-pyrite, new mineral. — Henglein, M.
Coblenzian, Hainault.—Bertiaux, A.
Cocchi, I., *Obit.*—*See* Anon., 5; Issel, A.; Pantanelli, D.; Stefani, C. de, 3; Strahan, A., 2.
Cockburnspath (Berwickshire).—Flett, J. S., 2.
Codiopsis.—Fourtau, R.; Jukovski, E.
Codonotheca.—Nathorst, A. G., 4.
Cœlestine.—Andrée, K., 1 & 3.
Cœloceras.—Meister, E.
Cœlochrysalis.—Tommasi, A.
Cœlodus.—Erasmo, G. d'.
Cœloptychium jerseyense.—Shimer, H. W.
Cœlosmilia.—Etheridge, R., *fil.*
Cœlostylina. — Cossmann, A. E. M.; Dareste de la Chavanne, J.; Mansuy, H.
Cœnholectypus.—Hawkins, H. L.
Cœur d'Alène (Idaho).—Stewart, C. A.
Colac (Victoria).—Dunn, E. J., 5.
Colima (Mexico).—Arreola, J. M.
Colloid clay-silicates. — Gans, R.; Stremme, H.; Wiegner, G.
Colloids, zonal structure in.—Abbott, G.; Johnston-Lavis, H. J., 2.
Coloborhynchus.—Hooley, R. W.
Colombia (S. Am.).—Anon., 55.
Colorado (U.S.A.).—Atwood, W. W.; Bastin, E. S.; Bradley, W. M.; Butler, B. S.; Cockerell, T. D. A., 1 & 2; Cross, W., 3 & 4; Ford, W. E., 1 & 5; Hess, F. L.; Hunter, J. F., 1 & 2; Jennings, E. P.; Larson, E. S., 4; Moore, C. J.; Wickham, H. F.; Woodruff, E. G., 1 & 2.
Colorado Desert (California).—Kew, W. S. W.
Colorado River-Basin (U.S.A.), surface-water.—Follansbee, R., 2.
Columbella.—Harmer, F. W.
Columbellina.—Cossmann, A. E. M.
Columbites.—Smith, J. P.
'Columbium,' the term.—Clarke, F. W.
Columbus Marsh (Nevada).—Gale, H. S., 4.
Columnaria.—Chapman, F., 8; Foerste, A. F.
Combretanthites.—Berry, E. W.
Côme volcano (Puy-de-Dôme). — Bertrand, L., 3; Glangeaud, P., 2.
Comillas (Santander).—Mengaud, L.
Comley (Shropshire).—Cobbold, E. S.
Commiphora.—Menzel, P.
Compatri, Mte. (Rome).—Rosati, A.
Conception Bay (Newfoundland).—Dale, N. C.
Concretions, origin of.—Reis, O. M., 3.
——, petroliferous.—Lohest, M.
——, pyritic, in Karroo sandstones.—Young, R. B., 3.
——, Wenlock Limestone. — Crosfield, M. C.
Condylocardia.—Chapman, F., 13.
Cone-in-cone structure.—Reis, O. M., 3.
Congeria.—Toula, F.
Conglomerate, Belgian manganiferous.—Bertiaux, A.
——, Campobasso.—Chelussi, I., 2.
——, Lewis I.—Stevens, A.
——, Moravian Tertiary.—Oppenheim, P.
——, New Zealand.—Cotton, C. A.
——, Shawangunk.—Brown, T. C.
——, Shinarump.—Gregory, H. E., 4.
——, South African auriferous.—Horwood, C. B.; Mellor, E. T., 3.
——, Swiss Callovian.—Arbenz, P.
——, Turin Tertiary.—Chelussi, I.
——, corrosion-.—Sardeson, F. W.
Congo Belge.—Ball, S. H.; Fourmarier, P.; Kostka, R.; Ledoux, A., 2; Mathieu, F. F.; Mercenier, M.; Passau, G.; Raffo, D.; Range, P.; Studt, F. E., 1 & 2.
Congo, French.—Tronquoy, R.
Congress, International Geological, Canada.—Holland, Sir Thomas H., 4; Krusch, P., 3; Quensel, P.
Coniopteris. — Knowlton, F. H., 3; Yabe, H., 2.
Connecticut (U.S.A.). — Barrell, J.; Davis, C. A.; MacCurdy, G. G.; Schuchert, C., 3; Ward, F.
Connecticut R. Valley (U.S.A.). — Fairchild, H. L.
Conocardium. — Mansuy, H., 2 & 3; Pæckelmann, W.
Conocarpus.—Berry, E. W., 5; Menzel, P.
Conokephalina.—Walcott, C. D.
Conostoma.—Benson, M. J.
Constance, Lake, district.—Schmidle, W.
Constellaria.—Foerste, A. F.
Contact-metamorphic deposits, origin of.—Lindgren, W.
—— —— mineral, new. — Umpleby, J. B., 6.
Contact-metamorphism.—Keith, C. L.; Kemp, J. F., 3; Uglow, W. L., 2.
—— ——, Idaho.—Umpleby, J. B., 3.
—— ——, Japan.—Kato, T., 2.
—— ——, Mexico.—Lindgren, W., 2.
—— ——, Saxony.—Beger, P. J.
—— ——, Siberia.—Weigel, O.
Contact-rocks, Cape Province. — McDonald, D. P., 3; Schwarz, E. H. L.
—— ——, Finland.—Mäkinen, E.
—— ——, Moravia.—Rzehak, A.
—— ——, Pyrenees.—Erdmannsdörffer, O. H.
Continental denudation, rate of.—Keyes, C. R., 7.

Continental deposits.—Keyes, C. R., 2.
—— ——, Turkestan.—Leuchs, K.
Continents & oceans, formation of.—Belot, E.
Contour-projection in geology.—Smith, W. S. T.
Conularia.—Diener, C.; Foerste, A. F.
Conus.—Smith, W. D.
CONYBEARE, J. J., *Biogr.*—*See* Conybeare, H. C. A.
Coodingnow (W. Australia).—Woodward, H. P., 4.
Cooglegong (W. Australia).—Simpson, E. S., 2.
Cook Strait (N.Z.).—Montessus de Ballore, F. de, 3.
Coolgardie (W. Australia).—Blatchford, T. A., 2.
COPE, T. H., *Obit.*—*See* Strahan, A., 2.
Copiapite.—Simpson, E. S., 6.
Copper, Arizona.—Douglas, James; Hill, J. M., 1 & 3; Ransome, F. L.
——, Bulgaria.—Scott, H. K.
——, California.—Knopf, A., 3; Turner, H. W., 2.
——, Canada.—Cartwright, C. T.; Wilson, A. W. G.
——, Colorado.—Butler, B. S.
——, Congo Belge.—Ball, S. H.
——, Devon.—Carus-Wilson, C.
——, German S.W. Africa.—Kœrt, W.
——, Idaho.—Umpleby, J. B., 3 & 5.
——, Montana.—Calkins, F. C.
——, Nevada.—Hill, J. M., 2.
——, Oregon.—Diller, J. S., 2.
——, South Australia.—Wainwright, W. E.
——, Tasmania.—Gilbert, C. J.
——, crystalline structure of.—Bragg, W. L.
——, sulphide-ores of.—Graton, L. C.
Copper sulphides in electrolytic & colloidal solutions.—Tolman, C. F., *fil.*
Copper-deposits, gossans and.—Turner, H. W.
Copper Queen Mine, Arizona.—Douglas, James.
Copper R. (Alaska).—Martin, L.
Coprolite.—Jeannet, A.
Coral-reefs, Florida.—Vaughan, T. W., 2 & 3.
——, Gotland.—Crosfield, M. C.
Corals.—*See* Anthozoa.
Corbis.—Jukovski, E.; Rollier, L.
Corbula.—Smith, J. P.
Cordaianthus.—Arber, E. A. N., 4.
Cordaicarpus.—Arber, E. A. N., 3 & 4.
Cordaicladus.—Arber, E. A. N., 4 & 5.
Cordaites.—Elkins, M. G.; Lignier, O., 6; Seward, A. C.; Wills, Lucy; Zalessky, M. D.
Cordierite-granite, Dartmoor.—Mennell, F. P., 2.
Cordillera, Argentine.—Girth, H., 2.
——, North American.—Burling, L. D., 2.
Corema.—Reid, C., 3.
Corfe Castle (Dorset).—Bowman, H. L.
Cornouaille (Britanny).—Kerforne, F., 3.
Cornucarpus.—Arber, E. A. N., 3.
Cornwall.—Bonney, T. G.; Dewey, H.; Hall, T. C. F., 1 & 2; Lees, P. B.
Corries.—*See* Cirques.
Corrosion-conglomerate.—Sardeson, F. W.
Corrugation, intraformational.—Clarke, J. M., 2.
Corynopteris.—Bertrand, P., 2.
Coseleya.—Kidston, R.
Cosenza (Calabria).—Campana, D. del, 3.
Cosmomya.—Holdhaus, K.
Costa Rica.—Anon., 57.
Côte d'Or (Burgundy).—Collot, L.
Cotentin (Normandy).—Bigot, A., 3; Priem, F.
Côtes-du-Nord (Britanny).—Kerforne, F., 2.
Cotteswold Hills.—Gray, J. W.; Wilson, E. T.
Cotteswoldia.—Schirardin, J.
Coutchiching Series, Ontario.—Lawson, A. C.
Couvinian, Dinant Basin.—Delmer, A.
Covellite.—Graton, L. C.; Ray, J. C.
Covey Hill (Quebec).—Goldthwait, J. W., 3.
Cow Creek (California).—Bryant, H. C.
Cow-Island Beds, Montana.—Sternberg, C. H., 2.
Cowal 'landslip.'—Smellie, W. R.
Cowlitz R. (Washington).—Collier, A. J.
Craigton Lake (Ohio).—Hubbard, G. D., 1 & 3; Leverett, F., 5.
Crania.—Nielsen, K. B.
Cranwich (Norfolk).—Halls, H. H.
Cranz (E. Prussia).—Tornquist, A.
Craspedites.—Zwierzycki, J.
Crassatella.—Stefani, C. de; Zuffardi, P., 2.
Crassatellites.—Dickerson, R. E., 2.
Cratægus.—Kristofovič, A.
Crater Lake (Oregon).—Margerie, E. de.
Crateraster.—Spencer, W. K.
Crawford County (Illinois).—Blatchley, R. S.
Crayford (Kent).—Chandler, R. H.
Creazzo (Venetia).—Kranz, W.
CREDNER, H., *Obit.*—*See* Strahan, A., 2; Wahnschaffe, F.
Creniceras.—Douvillé, R., 3.
Creran, Loch (Argyll).—Bailey, E. B.
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——, Dorset.—Lang, W. D., 3.
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——, Sahara.—Chudeau, R.
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——, Stettin.—Linstow, O. von.
——, Suez.—Douvillé, H., 4.
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——, Tripoli.—Stefani, C. de.
——, Vaud.—Jeannet, A.
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——, Westphalia. — Bærtling, R.; Franke, A.; Laurent, A.
——, Wyoming.—Gilmore, C. W., 2; Schultz, A. R.
——, Yonne.—Negre, G., 2.
——. *See also* Senonian, *&c.*
Cretaceous-Tertiary boundary, North America.—Brown, B., 4; Knowlton, F. H., 2; Matthew, W. D., 2; Osborn, H. F., 7; Stanton, T. W.; Stephenson, L. W.
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Cribrilina.—Brydone, R. M.
Cricetus.—Freudenberg, W.
Cricotus.—Broom, R., 9.
Crimea.—Arschinow, W. W., 2; Borissiak, A.; Brincken, O. A.; Chirvinski, P. N., 2; Gorodtzov, B. A., 2.
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——, Carboniferous.—Bather, F. A., 4 & 7.
——, Cretaceous.—Fourtau, R.
——, Devonian. — Bather, F. A., 5; Schmidt, W. E.
——, Jurassic.—Jukovski, E.
——, Liassic.—Dareste de la Chavanne, J.; Vadasz, M. E.
——, Ordovician.—Bather, F. A., 1 & 2; Foerste, A. F.
——, Permian.—Licharev, B.
——, Triassic.—Smith, J. P.
——, composition of skeletons of.—Clarke, F. W., 3.
——, nomenclature of.—Springer, F.
——, phylogeny of.—Wood, E.
——, slab of fossil.—Bassler, R. S.
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Cristellaria.—Sherlock, R. L.
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Cryptoplocus.—Jukovski, E.
Cryptoptyxis.—Cossmann, A. E. M.
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Crystallographic apparatus. — Kraus, E. H., 2; Thomas, Herbert H.; Voigt, W.; Wallerant, F.; Wulff, G., 2.
Crystallographic models.—Tertsch, H., 2.
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——, BECKE-WRIGHT controversy in.—Souza-Brandão, V., 5.
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——, internal structure of.—Terlanday, E.
——, measurement of.—Jezek, B., 2.
——, molecular mobility in.—Wallerant, F., 4.
——, optical properties of.—Collingridge, H.; Petrov, K.; Souza-Brandão, V., 5; Wallerant, F., 3; Wulff, G.
——, radiography of.—Stöber, F.
——, structure of.—Groth, P.
—— of unequal symmetry, association of.—Duffour, A.

Crystals, X-rays & structure of.—Barlow, W.; Bragg, W. H., 1-4; Bragg, W. L., 2; Friedel, G., 1 & 2; Laue, M. von.
Csáklyaköer (Transylvania).—Hoffer, A.
Csepel I. (Hungary).—Vendl, A., 3.
Csobanka (Hungary).—Hillebrand, E.
Ctenacanthus.—Bézier, T.
Ctenodonta.—Douvillé, H.
Ctenomys.—Rovereto, G., 4.
Cuccoceras.—Mansuy, H.; Smith, J. P.
Cuckmere R. (Sussex).—Elsden, J. V., 2.
Cucullæa.—Smith, W. D.
Cucullella.—Fuchs, A.
Cue (W. Austr.).—Woodward, H. P., 9.
Cuesmes Limestone.—Leriche, M.
Cuffley (Herts.).—Pocock, R. W., 3.
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——, Silesia.—Berg, G., 2.
Cultellus.—Smith, W. D.
Cultrijugatus Zone, Westphalia. — Schmidt, W. E.
Cumberland.—Gregory, J. W., 4 & 9; Mantle, H. G.
—— (Maryland).—Gidley, J. W.
Cupressocrinus.—Bather, F. A., 5.
Cuproiodargirite.—Quercigh, E.
Curdie's R. (Victoria).—Dunn, E. J., 5.
Currie, Mt. (Cape Province).—Du Toit, A. L.
Curwensville (Pennsylvania). — Ashley, G. H.
Cuspidaria. — Dickerson, R. E., 2; Stefani, C. de.
Custer County (Colorado). — Hunter, J. F., 2.
—— —— (Idaho).—Umpleby, J. B.
—— —— (Montana).—Rogers, G. S.
Custerite.—Umpleby, J. B., 6.
Cuyuna (Minnesota).—Zapffe, C.
Cuzco (Peru).—Gregory, H. E., 2.
Cwms, Antarctica.—Taylor, G., 2.
Cwms, The (Shropshire).—Cobbold, E. S.
Cyathocrinus.—Mansuy, H., 2.
Cyathophyllum. — Chapman, F., 8; Mansuy, H.
Cyathoseris.—Oppenheim, P.
Cybele.—Reed, F. R. C., 4.
Cycadeoidea.—Wieland, G. R.
—— *micromyela.*—Lignier, O., 4 & 9.
Cycadites.—Lignier, O., 6 & 9.
Cycadophyta.—Thomas, H. Hamshaw, 2.
Cyclades Is.—Ktenas, C. A., 1 & 2.
Cyclaster.—Stefani, C. de.
Cycloclypeus.—Rutten, L., 2.
Cycloconcha.—Foerste, A. F.
Cyclocystoides.—Raymond, P. E.
Cycloderma.—Oswald, F.
Cyclolites.—Stefani, C. de.
Cyclonema.—Foerste, A. F.
Cyclopteris.—Wills, L.
Cyclopyge.—Reed, F. R. C., 4.
Cycloseris.—Smith, W. D.
Cyclotosaurus.—Wiman, C.
Cylicoceras.—Schirardin, J.
Cylindrobullina.—Dareste de la Chavanne, J.
Cymopolia.—Morellet, L.
Cynodictis intermedius.—Carlsson, A.
Cynodon gracilis.—Carlsson, A.
Cyphaspis.—Mansuy, H., 3; Pæckelmann, W.; Reed, F. R. C., 4; Richter, R., 2.
Cyphosoma.—Fourtau, R.
Cypricardella.—Fuchs, A.
Cypricardinia.—Pruvost, P., 4.
Cyprina-islandica Beds, N. Italy. — Gignoux, M., 2.
Cyrtina.—Fuchs, A.
Cyrtodontarca.—Licharev, B.
Cyrtograptus.—Elles, G. L., 3.
Cystoidea, Cambrian.—Schuchert, C., 8.
——, Ordovician.—Raymond, P. E.
——, Trenton.—Bather, F. A., 6.
Cytherea.—Stefani, C. de.

Dacite, Victoria.—Summers, H. S.
Dacryopora.—Lang, W. D., 2.
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Dactylopora.—Morellet, L.
Dadoxylon.—Zalessky, M. D.
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Dalmanites.—Foerste, A. F.; Groth, J.; Mansuy, H., 1 & 3.
Dalmatia.—Gregory, J. W., 2; Kerner, F. von; Schubert, R.
Dalmatites.—Smith, J. P.
Dalton, L. V., *Obit.*—*See* Anon., 6.
Danæopsis.—Zalessky, M. D.
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Danos (Transylvania). — Roth von Telegd, L.
Danube R.—Menzel, H., 2; Schnarrenberger, W., 6.
Daonella.—Böhm, J.; Smith, J. P.
—— Beds, Bosnia.—Toula, F.
Darling Plateau (W. Australia).—Jutson, J. T., 3.
Darmstadt.—Schottler, W.
Dartmoor (Devon).—Mennell, F. P., 2.
Darwin (California).—Knopf, A., 4.
Darwin, Mt. (Tasmania).—Hills, L.
Darwin, Sir George H., *Obit.*—*See* Anon., 7; Strahan, A., 2.
Darwin's theory of atolls.—Poulton, E. B.
Dasycladaceæ, Tertiary.—Morellet, L.
Dasypus.—Rovereto, G., 4.
Datum-level, Prussia.—Jentzsch, A., 3.
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Dauphiné (France).—Martonne, E. de.
Davangere (Mysore).—Slater, H. K.
Dawson (B.C.).—McConnell, R. G., 5.
Dawson County (Montana). — Rogers, G. S.

Daylesford (Victoria).—Whitelaw, H. S., 2.
Dean's Marsh (Victoria).—Dunn, E. J., 6.
Death Valley (California).—Gale, H. S., 2.
De Beque (Colorado).—Woodruff, E. G.
Decapoda, Cretaceous.—Jukovski, E.
——, Triassic.—Bill, P. C.
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Deep-sea deposits.—Launay, L. de, 2.
—— ——, Antarctica.—Pirie, J. H. H.
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——, excavation-.—McDonald, D. F., 2.
De Geer, geological time estimate of.—Horne, J., 2.
Deinocephalia.—Watson, D. M. S., 4.
Delaware R. (U.S.A.).—Winchell, N. H., 3.
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Delphinula.—Nelli, B.
Delphinulopsis.—Tommasi, A.
Deltas, Mississippi.—Shaw, E. W., 2.
Deltopecten.—Licharev, B.
Denmark.—Faber, H.; Henriksen, K. L.; Hintze, V.; Jækel, O., 4; Nielsen, K. B.; Ravn, J. P. J.
Dentalina.—Franke, A.
Dentalium.—Smith, W. D.
Denudation, Argyll.—Smellie, W. R.
—— (subaerial), British Isles.—Travis, C. B., 3.
——, continental.—Keyes, C. R., 7.
——, Post-Glacial.—Strahan, A., 4.
——, South Africa.—Harger, H. S.
Derbya.—Kozlovski, R.
Derbyshire.—Calman, W. T.; Gibson, W.
Deroceras.—Buckman, S. S.
Derwent Valley (Tasmania).—Stephens, T., 2.
Desert-erosion.—Hume, W. F.
Desert-water, erosive potential of.—Keyes, C. R., 4.
Deserts.—Gregory, J. W., 10.
——, Egypt.—Leuchs, K., 2.
Desertella.—Douvillé, H.
Desiccation, East Africa.—Hobley, C. W.
——, Eurasia.—Kropotkin, P.
Detritus, transportation of.—Cornish, V.
Deux Ponts (Basses-Alpes).—Cotte, C.
Devero, Val (Piedmont).—Bianchi, A., 1 & 2.
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——. *See also* Torquay Natural History Society.
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Devonian, Belgium.—Bertiaux, A.; Delhaye, F., 1 & 2; Renier, A.
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——, Devon.—Jukes-Browne, A. J., 4.
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——, Hunan.—Frech, F., 2.
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——, Luxemburg.—Asselbergs, E.; Lucius, M.
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——, Mayenne.—Bézier, T.
——, Nassau.—Liebrecht, F.
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——, Portugal.—Pruvost, P., 4.
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——, Shan States.—La Touche, T. H. D.
——, Spain.—Groth, J., 2.
——, Utah.—Hintze, F. F., *fil.*
——, Westphalia.—Henke, W., 1–3; Liebrecht, F.; Pæckelmann, W.; Schmidt, W. E.
——. *See also* Eifelian, Old Red Sandstone, *&c.*
Devonian-Silurian contact, Namur.—Devivier, P.
Dewalquea.—Berry, E. W., 5.
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——, Moravia.—Rzehak, A.
——, Portugal.—Souza-Brandão, V., 2.
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——, Virginia.—Watson, T. L., 2.
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——, German South-West Africa.—Kœrt, W.; Lotz, H.; Schuering, G.
——, graphite-coated.—Wagner, P. A.
——, structure of.—McDonald, D. P., 5
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Diasparactus.—Williston, S. W., 2.
Diastrophism.—Chamberlin, T. C., 1 & 2.
Diatinostoma.—Cossmann, A. E. M.

Diatomaceous earth, France.—Gonnard, F., 2.
—— ooze, South Atlantic Ocean.—Pirie, J. H. H.
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Dibelodon.—Eaton, G. F.
Dibrar, Mt .(Caucasus).—Zuffardi, P., 2.
Dibunophyllum.—Salée, A., 2.
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Dictyophyllum.—Pelourde, F.
Dictyopteris.—Arber, E. A. N., 5.
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—— *halli.*—Watson, D. M. S., 10.
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Dimorphodon.—Huene, F. von, 7.
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Dindymene.—Reed, F. R. C., 4.
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Dinosauria.—Brown, B., 1 & 2; Gilmore, C. W.; Huene, F. von, 3–5, 9 & 10; Lambe, L. M., 2 & 3; Nopcsa, Baron F.; Osborn, H. F., 3.
Dinotherium.—Oswald, F.; Pilgrim, G. E.
Dinotherium-sand, Rhein-Hesse.—Haupt, O.
Diplochætetes.—Lotz, H.
Dionide.—Reed, F. R. C., 4.
Diopside.—Bowen, N. L.; Grill, E., 3.
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——, Peru.—Douglas, J. A.; Gregory, H. E., 2.
——, Portugal.—Souza-Brandão, V.
——, Ural Mts.—Duparc, L., 8.
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Diospyros.—Berry, E. W., 5; Menzel, P.
Dip-chart.—Wright, F. E., 5.
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Diplodocus.—Huene, F. von, 9.
Diplodonta.—Douvillé, H.
Diplopterotesta.—Nathorst, A. G., 4.
Discina.—Fuchs, A.; Mansuy, H., 3; Smith, J. P.
Discoidea.—Hawkins, H. L.
Discotectus.—Jukovski, E.
Discotropites.—Mansuy, H.
Disichthys.—Broom, R., 10.
Dislocations, Saxony.—Etzold, F.
Disteiromys.—Rovereto, G., 4.
Disthene.—*See* Kyanite.
Distichoceras.—Douvillé, R., 3.
Ditremaria & *Ditretus.*—Jukovski, E.
DITTRICH, G. P. M., *Obit.*—*See* Anon., 8.
Dives (Calvados).—Douvillé, R.
Djebel Filfila (Algeria).—Joleaud, L., 5.
Djebel-Melah (Morocco).—Azéma, —, 2.
Djebel Ressas (Tunis).—Joleaud, L., 4.
Dodonæa.—Berry, E. W., 5.
Dœdicurus.—Rovereto, G., 4.
Dönna (Norway).—Sahlström, K. E., 2.
Dogger, Alpes Maritimes.—Kilian, C. C. W.
Dognacska (Hungary).—Halavats, G. von.
Dog Trap Gully (Victoria).—Dunn, E. J., 4.
Dolerite, Western Australia.—Blatchford, T. A., 2.
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Dolium.—Smith, W. D.
Dolomite, Alsace.—Kræmer, R.
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——, Sicily.—Gregorio, A. de, 2.
——, Sweden.—Sjögren, H., 2.
——, Tauern.—Sander, B.
——, Wyoming.—Blackwelder, E.
——, bacterial action and.—Jourdy, E., 3.
——, dissolution-faces of.—Gaubert, P., 2.
——, isomorphism between calcite and.—Foote, H. W.
——, Melobesieæ and.—Cayeux, L., 1 & 3.
——, origin of.—Jourdy, E., 1 & 2; Van Tuyl, F. M.
Dolomitization.—Wallace, R. C., 2 & 3.
Dome District (Idaho).—Umpleby, J. B., 2.
Don Province (Russia).—Semikhatov, A. N.
Don R. (Ontario).—Wright, G. F.
—— —— (Russia).—Semikhatov, A. N.
Donax.—Chapman, F., 13.
Donnersberg (Rhenish Bavaria).—Schuster, M., 2.
Donnybrook (Cape Province).—Watson, D. M. S., 3.
Dorocidaris.—Fourtau, R.
Dorsanum.—Bucher, W.

Dorset.—Bowman, H. L.; Brydone, R. M., 2; Lang, W. D., 3; Woodward, A. S.
Dortmund (Westphalia).—Bærtling, R., 2; Gothan, W.
Doryanthites.—Berry, E. W., 5.
Dorycordaites.—Arber, E. A. N., 5.
Dosinia.—Dickerson, R. E., 2; Smith, W. D.
Doulting (Somerset).—Richardson, L.
Douvilléiceras.—Zwierzycki, J.
Douvillina.—Schmidt, W. E.
Douxami, H., *Obit.*—*See* Révil, J.
Dreiherrnstein (Nassau).—Liebrecht, F.
Dreikanter.—Swinnerton, H. H.; Watson, D. M. S., 16.
Drepanophycus.—Goldschmidt, V. M.
Dresden (Saxony).—Krenkel, E., 3.
Drift, British Isles.—Lamplugh, G. W.
——, Brunswick.—Schmierer, T., 2.
——, Durham.—Trechmann, C. T.
——, Europe.—Bayer, J.
——, Germany.—Gagel, C.
——, Hanover.—Tietze, O.
——, Iowan.—Leverett, F.
——, Nebraska.—Barbour, E. H., 3.
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——, Rhône Valley.—Bonard, A.
——, Saxony.—Schmierer, T., 2.
——, Schleswig-Holstein.—Gagel, C., 2.
——, Silesia.—Michael, R., 3.
——, Tasmania.—Stephens, T.
——, Victoria.—Dunn, E. J., 3.
Drillia.—Martin, B.
Drôme (France).—Lamothe, — de.
Drumlins, East Prussia.—Hess von Wichdorff, H., 2.
——, Posen.—Korn, J., 4.
Drvar (Bosnia).—Toula, F.
Dryopithecus.—Woodward, A. S., 2.
Dryopterites.—Berry, E. W., 5.
Dryptosaurus.—Huene, F. von, 8.
Dublin (Ireland).—Stokes, H.
Ducktown (Tennessee).—Van Horn, F. R., 1 & 3.
Düsseldorf (Germany).—Pohlig, H., 3.
Duisburg (Rhenish Prussia).—Hess, W.
Duler (Bosnia).—Toula, F.
Dumbartonshire.—Gwinnell, R. F.; Macnair, P.
Dumfriesshire.—Scott, A.
Dumortieria.—Renz, C., 2.
Duncan (B.C.).—Clapp, C. H., 4.
Dunedin (N.Z.).—Marshall, P.
Dunes, Gascony.—Harlé, E., 3.
——, Nord.—Douxami, H.
——, Sweden.—Högbom, I.
Dunite.—Duparc, L., 8 & 9.
Dunton Green (Kent).—Davies, G. M.
Dura Den (Fife).—*See* British Association Committee, 3.
D'Urban (British Guiana).—Harrison, J. B.
Durham.—Prest, J. J.; Trechmann, C. T., 1 & 2.
Dutch East Indies.—Brouwer, H. A.; Deninger, K.; Molengraaff, G. A. F.; Rutten, L.; Seidlitz, W. von; Volz, W.; Wanner, J.
Duvalia.—Zwierzycki, J.
Dykes, Cape Province.—Du Toit, A. L., 2; Schwarz, E. H. L., 3.
——, Central Provinces.—Fox, C. S.
——, Colorado.—Cross, W., 3.
——, Lewis I.—Stevens, A.
——, Transvaal.—McDonald, D. P., 2; Mellor, E. T., 2.
——, Victoria.—Howitt, A. M.
Dysodonta.—Mansuy, H., 3.

Earth, contraction of.—Ball, J.
——, crust of.—Holland, T. H., 3; Suess, E.; Toula, F., 2.
——, ——, infraplutonic zone.—Fermor, L. L., 2.
——, ——, isostatic adjustment of.—Gilbert, G. K.
——, ——, movements of.—Travis, C. B.
——, ——, solar spectrum &.—Russell, H. N.
——, ——, strength of.—Barrell, J., 5.
——, ——, zone of flow in.—Anten, J.
——, desiccation of.—Gregory, J. W., 5.
——, elasticity of.—Gale, H. G.
——, formation of.—Douvillé, H., 3.
——, formative processes of.—Chamberlin, C., 2.
——, earthquakes & interior of.—Oldham, R. D., 2.
——, isostasy and size & shape of.—Bowie, W., 3.
——, interior of.—Holland, Sir Thomas H., 3.
——, radioactive rocks & temperature of.—Hamberg, A.
——, rigidity of.—Michelson, A. A.
——, temperature of interior of.—Treubert, F.
Earth-magnetism, geological structure and.—Pfaff, F. W.
Earth-movements, gravity and.—Spencer, J. W. W.
—— ——, Lake-Agassiz Basin.—Leverett, F., 4.
—— ——, lateral.—Rice, G. S.
Earth-'throw,' Livonia.—Doss, B., 2.
Earthquakes, Asia Minor.—Angot, A.
——, Baltic Provinces.—Doss, B.
——, Bolivia.—Gholitzuin, B.
——, German South-West Africa.—Sieberg, A.
——, Greece.—Eginitis, D.
——, Japan.—Davison, C., 2 & 5; Omori, F., 1-4.
——, New Zealand.—Hogben, G.; Montessus de Ballore, F. de, 3.
——, Norway.—Kolderup, C. F., 1 & 2.
——, Panama.—Sieberg, A., 3.
——, Paris Basin.—Bergeron, J.
——, Peru.—Sieberg, A., 2.

Earthquakes, Philippine Is.—Maso, M. S.
——, Portugal.—Pereira de Sousa, A. A.
——, Rauhe Alb.—Montessus de Ballore, F. de, 2.
——, Sicily.—Davison, C., 2 & 6.
——, Spitsbergen.—Sieberg, A., 5.
——, Sumatra.—Reid, H. F.
——, Tian-Shan.—Boghdanovich, C.
——, determination of epicentres of.—Rudolph, E.
——, distribution of epicentres of.—Montessus de Ballore, F. de.
——, earth's infra-plutonic shell and.—Fermor, L. L., 2.
——, geological structure and.—Maso, M. S.
——, interior of the earth and.—Oldham, R. D., 2.
——, Panama Canal and.—Davison, C.
——. *See also* Seismographs & Seismology.
Earthquake-map, Hungary—Réthly, A.
Earthquake-records, Harvard.—Woodworth, J. B.
—— ——, Japan.—Szirtes, S.
—— ——, Spitsbergen.—Mainka, C.
—— ——, Styria.—Stücker, N.
—— ——, Woodbridge Hill.—Norris, F. E.
—— sea-waves.—Reid, H. F., 2.
Earthquake-stations.—Gholitzuin, B., 2.
—— ——, Spitsbergen.—Rempp, G., 1 & 2.
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East African Trough.—Parkinson, J.
Eau d'Heure (Hainault).—Bertiaux, A.
Ebersdorf (Silesia).—Renz, C.
Echinobrissus.—Fourtau, R.
Echinoderma.—*See* Asteroidea, Echinoidea, *&c.*
Echinoidea.—Hawkins, H. L.; Kœhler, O.
——, Callovian.—Lambert, J.
——, Cretaceous.—Démoly, F.; Fourtau, R.; Stefani, C. de.
——, Eocene.—Dickerson, R. E., 2.
——, Jurassic.—Jukovski, E.
——, Liassic.—Dareste de la Chavanne, J.
——, Miocene.—Lambert, J., 3; Lovisato, D., 2.
——, Pliocene.—English, W. A.; Lambert, J., 3; Pilsbry, H. A.
——, Tertiary.—Kew, W. S. W.; Smith, W. D.
——, anagenesis in.—Vadasz, M. E., 2.
Echinolampas & *Echinoneus.*—Lambert, J., 3.
Echioceras.—Buckman, S. S.
Ecouves (Orne).—Bigot, A., 5.
Ectenocrinus.—Foerste, A. F.
Edinburgh.—Flett, J. S., 1 & 2; Macconochie, A.
Edmondia.—Mansuy, H., 3.
Edmonton (Middlesex).—Warren, S. H., 4.
Edmonton Beds, Alberta.—Brown, B., 1–4.
Edmunds Formation, Maine.—Williams, H. S.
Edrioaster.—Bather, F. A., 6.
Edrioasteroidea, Cambrian.—Schuchert, C., 8.
——, Trenton.—Bather, F. A., 6.
Eerste R. (Cape Province).—Shand, S. J., 2.
Eger (Hungary).—Schreter, Z.
Eggenburg (Lower Austria).—Schaffer, F. X.
Egypt.—Andrée, K., 1 & 3; Beadnell, H. J. L.; Ferrar, H. T.; Fourtau, R.; Leuchs, K., 2; Petrie, W. M. F.; Priem, F., 4; Stromer, E.
Ehretiæcarpum.—Menzel, P.
Ehringsdorf (Thuringia).—MacCurdy, G. G., 4.
Eifel district (Germany).—Asselbergs, E.; Kobelt, W.; Ledoux, A.; Liesegang, R. E.; Pohlig, H.; Quiring, H., 2; Richter, R.
Eifelian, Ardennes.—Cayeux, L., 2.
——, Rhenish Prussia.—Quiring, H.
Eigg, Sgurr of.—Bailey, E. B., 2; Harker, A., 2.
Eileticus.—Pruvost, P., 2.
Eisenach (Thuringia).—Naumann, E.
Elæocarpus.—Menzel, P.
Elasmotherium.—Borissiak, A., 2; Gubkin, J. M., 2.
Elatides.—Knowlton, F. H., 3.
Elba.—Millosevich, F.; Sacco, F., 4; Stefani, C. de, 5; Termier, P., 2.
Eldar R. (Transcaucasia).—Riabinin, A.
Elegantuliceras.—Buckman, S. S.
Elephas.—Abel, O., 4; Dreger, J.; Fournier, E., 4; Freudenberg, W.; Gubkin, J. M., 2; Osborn, H. F., 10; Stefanescu, S.; Zuffardi, P.
—— *planifrons.*—Schlesinger, G., 1 & 2.
Electric activity in ore-deposits.—Wells, R. C.
Ellamar (Alaska).—Brooks, A. H.
Elsgau (Switzerland).—Hummel, K., 2.
Elspe (Westphalia).—Henke, W., 2; Schmidt, W. E.
Elztal (Baden).—Schnarrenberger, W., 2.
Embabaan (Swaziland).—Hall, A. L., 4.
Emery.—Brauns, R., 3.
Empressite.—Bradley, W. M.; Schaller, W. T.
Ems R. (Germany).—Tietze, O.
Emscher R. Valley (Westphalia).—Kukuk, P., 3.
Ems-Weser Canal (Germany).—Harbort, E., 2.
Emydops.—Broom, R., 2.
Emydorhynchus.—Broom, R., 2.
Enargite.—Graton, L. C.
Encrinurus.—Reed, F. R. C., 4.

Endiatænia.—Dareste de la Chavanne, J.
Endothiodon.—Watson, D. M. S., 9.
Engelberg (Unterwalden).—Arbenz, P., 3.
Englburgite.—Schuster, M., 3.
England, Pre-Cambrian of.—Strahan, A., 4.
——, South Coast of.—César-Franck, R.
——, Upper Jurassic of.—Salfeld, H., 3.
Engraving, Palæolithic.—Woodward, A. S.
Enid (Oklahoma).—Schwennesen, A. T.
Enns Valley (Styria).—Hahn, F. F.
Entalis.—Tommasi, A.
Enteletes.—Douglas, J. A.; Kozlovski, R.; Mansuy, H., 2.
Entomis.—Pæckelmann, W.
Entre-Sambre-et-Meuse (Belgium).—Bertiaux, A., 2; Lassine, A.; Malaise, C., 1, 2, & 4.
Eoactis.—Spencer, W. K., 2.
Eoanthropus.—Dawson, C.
Eoauchenia.—Rovereto, G., 4.
Eobatrachus.—Moodie, R. L.
Eocene, California.—Arnold, R., 3; Dickerson, R. E., 1–3; Waring, C. A.
——, Campania.—Checchia-Rispoli, G.
——, Charente.—Douvillé, H., 2.
——, Egypt.—Andrée, K., 1 & 3; Priem, F., 4.
——, Georgia.—Berry, E. W., 5.
——, Hainault.—Stevens, C., 2.
——, Hampshire.—White, H. J. O.
——, Hertfordshire.—Kidner, H.
——, New Mexico.—Matthew, W. D.
——, North America.—Matthew, W. D., 3.
——, Paris Basin.—Dollfus, G. F., 2.
——, Seine-et-Oise.—Lemoine, P.
——, Suffolk.—Moir, J. R., 2.
——, Sussex.—White, H. J. O.
——, Tennessee.—Berry, E. W.
——, Texas.—Dumble, E. T.
——, Tunis.—Thomas, P.
——, Unterwalden.—Buxtorf, A.
—— flora, North America.—Berry, E. W., 4.
Eocene-Cretaceous, North America.—Brown, B., 4; Osborn, H. F., 7; Stephenson, L. W.
Eocyclops.—Broom, R., 2.
Eoharpes.—Raymond, P. E., 2.
Eoliths.—Péringuey, L.; Warren, S. H., 3.
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Eomoropus.—Osborn, H. F., 4.
Eotitanops.—Osborn, H. F., 5 & 9.
Eotrapezium.—Douvillé, H.
Eperjes (Hungary).—Posewitz, T., 3.
Epidote, Hungary.—Vendl, M., 2.
——, Piedmont.—Grill, E., 2.
Epipatriarchus & *Epipeltephilus.*—Rovereto, G., 4.
Epitherium.—Rovereto, G., 4.
Epping Forest (Essex).—Thompson, P. G., 2; Warren, S. H., 2.
Epprechstein (Bavaria).—Laubmann, H., 2.
Equidæ.—Merriam, J. C., 1–3.
Equisetites.—Chapman, F., 9; Lignier, O., 9.
—— *mamertinus.*—Lignier, O.
Equisetum.—Chapman, F., 9; Knowlton, F. H., 3; Lignier, O., 2, 3, & 9.
Equus.—Broom, R.; Freudenberg, W.; Irving, A., 2 & 3; Merriam, J. C.
——. *See also* Horse.
Eretmophyllum.—Thomas, H. Hamshaw.
Eridorthis.—Foerste, A. F.
Erith (Kent).—Davies, G. M.
Erosion.—Evans, J. W., 2; Goldschmidt, V. M., 2.
——, Forez Mts.—Glangeaud, P., 4.
——, Maryland.—Hunter, J. F., 3.
——, South Australia.—Mawson, D., 2.
——, desert-.—Hume, W. F.
——, desert-water.—Keyes, C. R., 4.
——, fluvial.—Dake, C. L.; Rich, J. L., 3.
——, frost.—Högbom, B., 3.
——, rate of.—Barclay, J. G.
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Eryops.—Broom, R., 9; Wiman, C.
Erzgebirge (Bohemia & Saxony).—Michel, H., 3; Pietzsch, K., 2.
—— (Transylvania).—Hoffer, A.
Escanaba (Michigan).—Allen, R. C.
Escharifora.—Canu, F., 3.
ESCHWEGE, W. L. von, *Biogr.*—*See* Choffat, P., 3.
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Esmeralda County (Nevada).—Hance, J. H.
Essex.—Anon., 50 & 51; Davies, G. M.; Irving, A., 3 & 4; Maynard, G.; Salter, A. E.; Thompson, P. G., 1 & 2; Warren, S. H., 1 & 2; Whitaker, W.
Essex river-system, evolution of.—Gregory, J. W., 3.
Essexite.—Finckh, L.; O'Neill, J. J.
Este (Venetia).—Sacco, F., 2.
Esterel (Var.).—Lutaud, L.
Estheria.—Cantrill, T. C.
Esthonia.—Born, A.
Etheridge Mineral Field (Queensland)—Ball, L. C., 2.
Etna (Sicily).—Ponte, G., 1 & 2.
Eucalyptus.—Berry, E. W., 5.
Euchelus.—Chapman, F., 13.
Euchrysalis.—Tommasi, A.
Eucœlophorus.—Rovereto, G., 4.
Euconospira.—Mansuy, H., 2.
Eucyclus.—Dareste de la Chavanne, J.

Eulima.—Chapman, F., 13.
Eulota.—Harmer, F. W.
Eumysops.—Rovereto, G., 4.
Eunaticina.—Jukovski, E.
Eunotosaurus africanus.—Watson, D. M. S., 6.
Euomphalus.—Diener, C.; Mansuy, H., 1 & 2; Pæckelmann, W.; Tommasi, A.
Eupatagus.—Pilsbry, H. A.
Euphemus.—Douglas, J. A.
Euphoriæcarpum.—Menzel, P.
Eurasia, desiccation of.—Kropotkin, P.
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——, Tertiary climates of.—Kerner, F. von, 2.
—— (Central), Quaternary mammalia of.—Freudenberg, W.
—— (North-West), Upper Jurassic of.—Salfeld, H., 3.
Eurychilina.—Pæckelmann, W.
Eurylepis.—Traquair, R. H., 2.
Eurypterida, Carboniferous.—Barbour, E. H., 2.
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Euryptychites.—Pavlov, A. P.
Eusigillaria.—Mercenier, M.
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Euthycarcinus.—Handlirsch, A.
Eutomoceras.—Smith, J. P.
Evaux-les-Bains (Creuse).—Cluzet, —.
Evonymus.—Menzel, P.
Evora (Portugal).—Souza-Brandao, V.
Excavation-deformation.—McDonald, D. F., 2.
Exe R.—Strahan, A., 3.
Exelissa.—Cossmann, A. E. M.; Jukovski, E.
Exmouth (Devon).—Carus-Wilson, C.
Exogyra.—Stefani, C. de; Stephenson, L. W., 2 & 3.

Fairbanks (Alaska).—Brooks, A. H.; Knopf, A.
Famatina (Argentina).—Bodenbender, G., 2.
Faratsihite.—Lacroix, A., 9.
Fareham (Hants.).—White, H. J. O.
Faringdon (Berks.).—Davies, G. M.; Treacher, Ll.
Farmington (Conn.).—Schuchert, C., 3.
Faults, Belgium.—Lassine, A., 2.
——, Cheshire.—Beasley, H. C., 2.
——, Holland.—Klein, W. C., 3.
——, Idaho.—Richards, R. W., 3.
——, Meurthe.—Joly, H.
——, New Mexico.—Darton, N. H., 4.
——, New South Wales.—Donaldson, R. J.
——, Pas-de-Calais.—Montagne, P.
——, Seine-et-Marne.—Lemoine, P., 2.
——, Staffordshire.—Clark, F. B. Forrest, N.
Faults, Keweenawan.—Lane, A. C., 2.
Fault-plane, Peru.—Gregory, H. E., 2.
Faulting, topography and.—Scott, I. D.
Fauquemont (Limburg).—Klein, W. C., 3.
Favia.—Oppenheim, P.
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Fayette County (Iowa).—Slocum, A. W.
FEDOROV, methods of.—Duparc, L., 5.
Fejer (Hungary).—Vendl, A.
Felis.—Freudenberg, W.
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Felsite, Arran.—Scott, A., 4.
Felspar.—Holmquist, P. J.; Johansson, H. E.; McDonald, D. P., 6; Schmidt, H. S. de.
Femsölyng (Denmark).—Henriksen, K. L.
Fenestella.—Licharev, B.; Mansuy, H., 2; Meyer, H. L. F., 2; Sacco, F., 4.
Fennoscandia.—Sederholm, J. J.
'FEREDAY SMITH' footprint slab.—Maidwell, F. T., 2.
Ferghana (Turkestan).—Mushketov, D. I.
Fermanagh (Ireland).—Hallissy, T.
Fernando Beds, California.—English, W. A.
Ferri-sulphates, genesis of natural.—Scharizer, R.
Ferricallophanes, Moscow.—Nikolaevskii, F.
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Fiadanana (Madagascar).—Grossmann, C.
Fibula.—Cossmann, A. E. M.
Fichtelgebirge (Bavaria).—Laubmann, H., 2.
Ficus.—Berry, E. W., 5; Kristofovič, A.
Fieldenia.—Knowlton, F. H., 3.
Fiesch Glacier (Switzerland).—Ledoux, A., 3.
Fife.—Benson, M. J.; Flett, J. S., 2; Jehu, T. J., 2; *see also* BRITISH ASSOCIATION COMMITTEE, 3.
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Finistère (France).—Azéma, —, 3 & 4; Barre, H. du Laurens de la.
Finkenberg (Rhenish Prussia).—Schuermann, E.
Finland.—Anon., 61; Eskola, P.; Laitakari, A.; Leiviskä, I.; Mäkinen, E. Sederholm, J. J., 2.
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Fissurella.—Dickerson, R. E., 2.
Fistulipora.—Chapman, F., 8.

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——, Dalmatia.—Gregory, J. W., 2.
Flabellum.—Nelli, B.; Smith, W. D.
Flagstone, South Australia. — Ward, L. K., 5.
Flemingites.—Diener, C.
Flints, Cotteswold Hills.—Gray, J. W.; Wilson, E. T.
——, fracture of.—Abbott, W. J. L.; Moir, J. R., 3 & 6.
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——, sub-Crag.—Clarke, W. G., 2.
Flintshire.—Montag, E.
Floitenkees (Tyrol).—Götzinger, G., 2.
Floras, geology and.—Favre, J.
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Florence (Italy).—Chelussi, I., 4.
Florida (U.S.A.).—Dole, R. B.; Matson, G. C.; Pilsbry, H. A.; Sellards, E. H.; Vaughan, T. W., 1–4.
Florissant (Colorado).—Cockerell, T. D. A., 1 & 2; Wickham, H. F.
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Fluvio-glacial-deposits, Savoy. — Combaz, P.
Flysch, Bavaria.—Hahn, F. F., 4.
Foca (Bosnia).—Katzer, F.
Fœtorius.—Freudenberg, W.
Foix (Ariège).—Bertrand, L.
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——, Saxonian.—Stille, H.
——, systems of.—Barrow, G., 2.
Folds, Argyll.—Bailey, E. B.
Folkestone (Kent).—Davies, G. M.
Folliculites.—Menzel, P.
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——, Cretaceous.—Franke, A.; Stefani, C. de.
——, Eocene. — Checchia-Rispoli, G.; Cotter, G. de P.
——, Permian.—Deprat, J.
——, Quaternary.—Geinitz, E.; Smith, W. D.
——, Silurian.—Rothpletz, A.
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——, Tertiary.—Rutten, L., 1 & 2; Smith, W. D.
Foraminiferal marl, Styria. — Winkler, A., 2.
Forbes Reef (Swaziland).—Hall, A. L., 4.
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Foreset beds, diastrophism and.—Chamberlin, T. C., 2.
Forest-Bed, Norfolk.—Hinton, M. A. C.
FORESTI, L., *Obit.*—*See* Pantanelli, D., 2.
Forez Mts. (France).—Glangeaud, P., 3 & 4.
Forsterite.—Bowen, N. L.
Forty-first Parallel Survey, Argentina.—Willis, B.
Fosse (Namur).—Lassine, A.; Malaise, C., 4.
Fossils, coloration in.—Roundy, P. V.
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Foulwind, Cape (N.Z.).—Morgan, P. G., 2.
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Fracture-systems, spacing of. — Scott, I. D.
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——, iron-ore deposits of.—Nicou, P.
——, Upper Jurassic of.—Salfeld, H., 3.
——, mineralogy of.—Lacroix, A.
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—— (——), Tertiary fishes of.—Priem, F., 2.
——. *See also* Charente, Dordogne, *&c.*
Franconia.—Pfaff, F. W., 4.
Frankenberg (Hesse-Nassau). — Meyer, H. L. F.
Frankfurt-a.-M. (Germany).—Wenz, W.
Franklin (Canada).—Johnston, R. A. A.
Franklin Furnace (N.J.).—Palache, C., 3.
Fraos (Sardinia).—Lovisato, D., 2.
Frasca, Cape (Sardinia).—Lovisato, D., 2.
Fraser R. (B.C.).—Bowen, N. L., 2.
Freestone Bluff (Tasmania).—Nœtling, F., 4.
Freiburg (Baden). — Schnarrenberger, W., 2–4.
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Friuli (Venetia).—Klinghardt, F.
Frondicularia.—Franke, A.; Sherlock, R. L.
Frost, action of.—Högbom, B., 1 & 3.
Fruska-Gora (Hungary).—Mauritz, B.; Tucan, F., 4.
Fumaroles.—Wolff, F. von.
Funafuti boring.—Wood-Jones, F.
—— ——, AGASSIZ and.—Judd, J. W., 3.
Fusain.—Jeffrey, E. C., 2.
Fusispira.—Foerste, A. F.

Fusulina.—Deprat, J.
—— -limestone, Japan, China, & Indo-China.—Deprat, J., 1 & 6.
Fusulinella.—Deprat, J.
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——, nomenclature of.—Girty, G. H.
Fusus.—Dickerson, R. E., 2; Harmer, F. W.
Fuzine (Hungary).—Kormos, T., 2.

Gabbro, British Columbia.—Schofield, S. J., 2.
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——, New York.—Miller, W. J., 4.
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——, Ural Mts.—Duparc, L., 8.
——, Western Australia.—Blatchford, T. A., 2.
Gabbro-diabase, Rhenish Bavaria.—Schuster, M., 2.
Gahnite.—Duparc, L., 6; Eskola, P.
Gaj Series, India.—Pilgrim, G. E.
Galena.—Mügge, O.
——, Alsace.—Kræmer, R.
Galiano I. (B.C.).—Clapp, C. H., 2.
Galicia.—Leiviskä, I.
Galway (Ireland).—Gardiner, C. I.
Gangamopteris.—Zalessky, M. D.
Gangamula (Mysore).—Iyengar, P. S.
Gangetic Plain (India).—Oldham, R. D.
Gaping Ghyll (Yorkshire).—Hill, C. A.
Gard (France).—Mazauric, F.; Werne, —.
Garialis.—Pilgrim, G. E.
Garnet.—Hezner, L.; Lacroix, A., 6; Lahee, F. H., 3; Wittich, E.
'Garnet-zones,' origin of.—Lindgren, W.
Garnetiferous leptynite.—Lacroix, A., 10.
Gas, Alberta.—Dowling, D. B.; Malcolm, W., 2.
——, Kentucky.—Munn, M. J., 1 & 3.
——, Manitoba & Saskatchewan.—Malcolm, W., 2.
——, Oklahoma.—Wood, R. H.
——, Pennsylvania.—Ashley, G. H.
——, Texas.—Phillips, W. B., 2.
——, Transylvania.—Szádeczky, J. de.
——, United States (Mid-Continent Field).—Gould, C. N.
——, Washington.—Lupton, C. T.
——, nitrogen in.—Moureu, C., 2.
——, origin of magmatic.—Meunier, S., 3.
——, radioactivity & rare.—Moureu, C.
——, volcanic.—Friedlænder, I., 3.
Gas-coal, Ruhr.—Kukuk, P.
Gascony (France).—Harlé, E., 1 & 3.
Gascoyne R. (W. Australia).—Woodward, H. P., 2.
Gastropoda, Carboniferous.—Mansuy, H.; Roundy, P. V.
——, Cretaceous.—Burwash, E. M.; Etheridge, R., *fil.*; Jukovski, E.; Stefani, C. de; Zuffardi, P., 2.
Gastropoda, Devonian.—Fuchs, A.; Frech, F., 2; Jukes-Browne, A. J., 4; Liebrecht, F.; Pæckelmann, W.; Pirsson, L. V., 3.
——, Eocene.—Dickerson, R. E., 2.
——, Jurassic.—Cossmann, A. E. M.; Jeannet, A.; Jukovski, E.; Renz, C., 4.
——, Liassic.—Dareste de la Chavanne, J.; Fucini, A.
——, Miocene.—Martin, K.; Nelli, B.; Oswald, F.
——, Oligocene.—Brown, A. P., 2.
——, Ordovician.—Foerste, A. F.
——, Palæozoic.—Mansuy, H., 3.
——, Permian.—Licharev, B.
——, Permo-Carboniferous.—Douglas, J. A.; Mansuy, H., 2.
——, Pleistocene.—Chapman, F., 6.
——, Pliocene.—English, W. A.; Harmer, F. W.; Martin, B.
——, Quaternary.—Krause, P. G.; Smith, W. D.
——, Silurian.—Williams, H. S.
——, Spiti Shales.—Holdhaus, K.
——, Tertiary.—Bucher, W.; Chapman, F., 13; Jodot, P., 2; Lotz, H.; Smith, W. D.
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——, coloration in.—Roundy, P. V.
Gattaja (Hungary).—Halavats, G. von.
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Gault, Basses Alpes.—Guébhard, A.
Gaylussite, pseudo-.—Callisen, K.
Geinitzella.—Licharev, B.; Mansuy, H., 2.
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Genesee Valley (N. Am.).—Grabau, A. W., 2.
Genyornis newtoni.—Stirling, E. C., 1 & 3.
Geography, geology and.—Branca, W.; Hahn, F. F., 3.
——, physical.—Falconer, J. D.
Geological boundaries, plant-distribution and.—Horwood, A. R.
—— museums, arrangement of.—Andrée, K., 2.
—— periods, palæogeography and.—Schuchert, C., 6.
—— ——, Palæozoic shelf-seas and.—Chamberlin, T. C.
—— ——, first.—Douvillé, H., 3.
—— photographs.—Sharpe, H. D.
—— reports.—Moon, F. W.; Paige, S., 2; Tomlinson, W. H.
Geological Society of America.—Fairchild, H. L., 2; Stanley-Brown, J.; Stevenson, J. J., 2; Winchell, N. H., 4.

Geological Societies, United States, formation of.—Winchell, N. H., 2.
Geological specimens, collection of.—Evans, J. W.
—— structure, earth-magnetism and.—Pfaff, F. W.
—— ——, earthquakes and. — Maso, M. S.
Geological Surveys, Alsace-Lorraine.—Buecking, H.
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—— ——, Canada.—Johnston, A. A.; Kindle, E. M., 3; Lambe, L. M., 4; Wilson, W. J., 3; *see also* CANADA, 2.
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—— ——, Hungary.—Emszt, K.; Horvath, B. von; Pitter, T.; Szinye, S. M. von.
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—— ——, New Zealand. — *See* NEW ZEALAND, Geological Survey.
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—— ——, Portugal.—Anon., 44.
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—— ——, Victoria.—*See* VICTORIA.
—— ——, organization of.—Choffat, P., 4.
Geological time.—Coleman, A. P., 2; Harker, A., 3; Horne, J., 2; Schuchert, C., 9.
Geology, climates and.—Huntington, E.
——, exact sciences and.—Harker, A., 3.
——, experimental.—Wright, F. E.
——, geography and. — Branca, W.; Hahn, F. F., 3.
——, mining and.—Hatch, F. H., 1 & 2.
——, palæontology and.—Branca, W.
——, speculative nature of. — Davis, W. M.
——. *See also* INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.
Georgetown (British Guiana).—Harrison, J. B., 2.
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German South-West Africa.—Henglein, M., 2; Kœrt, W.; Lotz, H.; Rimann, E., 2; Scheuring, G; Sieberg, A.
Germanium.—Bardet, J.
Germanonautilus.—Smith, J. P.
Germany.—Kormos, T.
——, diluvial period in.—Kiekebusch, A.
——, Quaternary man in.—Gagel, C., 3; Wiegers, F., 2.
——, potash salt-deposits of. — Bœke, H. E.
Germany (Central), glacial flora & ice-age in.—Nathorst, A. G., 2.
—— (North), bogs of.—Hess von Wichdorff, H., 3.
—— (—), glaciation of.—Gagel, C.
—— (—), Glacial & Interglacial. — Wahnschaffe, F., 4; Wolff, W., 3.
—— (—), salt-deposits.—Jentzsch, A., 2.
—— (North-West), Upper Jurassic of.—Salfeld, H., 3.
—— (——), river-valleys.—Schucht, F.
—— (South), faunal distribution in Jurassic of.—Salfeld, H., 2.
——. *See also* Baden, *&c.*
Gerona (Spain).—Brun, A., 3.
Gervillea.—Burwash, E. M.; Krauss, H.; Mansuy, H.
Ghyvelde (Nord).—Douxami, H.
Gibraltar (W. Austr.).—Blatchford, T. A., 2.
Gingin (W. Austr.).—Etheridge, R., *fil.*
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Gippsland (Victoria). — Baragwanath, W., 3; Hall, T. S., 2.
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Gironde (France).—Queyron, P.
Girvan (Ayrshire).—Reed, F. R. C., 4.
Girvanella.—Garwood, E. J., 2.
Gitolampus.—Fourtau, R.
Givonne (Belgium).—Asselbergs, E.
Glacial boulders, Warwickshire.—Lapworth, C.
—— ——, transportation of. — Mantle, H. G.
Glacial dam, Connecticut.—Ward, F.
—— deposits, Antarctic seas.—Pirie, J. H. H.
—— ——, Canada.—Tyrrell, J. B., 2.
—— ——, Congo Belge.—Passau, G.
—— ——, Connecticut.—Ward, F.
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—— ——, Germany.—Wahnschaffe, F., 4.
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—— ——, Jura. — Fournier, E., 4; Piroutet, M.
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—— ——, Montana.—Alden, W. C., 2.
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—— ——, Ontario.—Wright, G. F.
—— ——, Pennsylvania. — Wright, G. F., 2 & 3.
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—— ——, Savoy.—Combaz, P.
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—— ——, Suffolk.—Boswell, P. G. H., 2.
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—— ——, Tasmania.—Nœtling, F., 4.
—— ——, Trent Basin.—Deeley, R. M.
—— ——. *See also* Glaciation, Moraines, Ice-Age, *&c.*

Glacial erosion, Dauphiné.—Martonne, E. de.
—— ——, Genesee Valley.—Grabau, A. W., 2.
—— ——, Montana.—Davis, W. M., 2.
—— ——, Norway.—Sahlström, K. E., 2.
Glacial geology, problems of.—Leverett, F., 7.
—— lakes, Montana.—Stone, R. W.
—— Period.—*See* Ice-Age.
—— soils.—Engeln, O. D. von.
—— valleys, evolution of.—Martonne, E. de.
Glaciated pebbles, Victoria.—Skeats, E. W., 2.
Glaciation, Africa (Central).—Brückner, E., 2.
——, Ain.—Gignoux, M., 3.
——, Andes.—Willis, B., 2.
——, Antarctica.—Taylor, G., 2.
——, Arran.—Mort, F.
——, Baden.—Buri, T.
——, Baltic valleys.—Geer, G. de, 2.
——, Bear I.—Nathorst, A. G., 3.
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——, Clare I.—Cole, G. A. J., 3.
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——, Germany.—Gagel, C.
——, Gothland.—Munthe, H.
——, Massachusetts.—Lahee, F. H.
——, Montana.—Alden, W. C.
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——, Ohio.—Hubbard, G. D., 2; Leverett, F., 5.
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——, Rhenish Prussia.—Stamm, K.
——, Rhön Mts.—Brückner, E.; Penck, A.; Philipp, H., 3.
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——, Savoy.—Combaz, P.
——, Scandinavia. — Ampferer, O., 2; Brückner, E., 4.
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——, Washington.—Matthes, F. E.
——, agriculture &. — Engeln, O. D. von.
Glacier Bay (Alaska).—Martin, L., 2; Wolff, W., 2.
Glacier Commission, International. — Rabot, C.
Glacier National Park (Montana). — Alden, W. C., 1 & 2.
Glaciers.—Friend, J. N.
——, Antartica.—Taylor, G., 2.
——, Bavaria.—Klebelsberg, R. von, 2.
——, British Columbia.—Ries, H., 4.
——, Canada.—Tyrrell, J. B., 2.
——, Karakoram Mts. — Workman, W. H., 2 & 3.
Glaciers, South Orkney Is.—Pirie, J. H. H., 2.
——, Switzerland.—Muret, E.
——, Tyrol.—Angerer, H.; Deeley, R. M., 3; Götzinger, G., 2; Klebelsberg, R. von, 1 & 4; Philipp, H., 5.
——, structure & movement of. — Philipp, H., 5.
——, waning of. — Brückner, E., 3; Lamansky, W. W.
Glasgow.—Macnair, P.
Glass-sand, Victoria.—Dunn, E. J., 4.
——. *See also* Sands.
Glatziella.—Renz, C.
Glauconite.—Palmer, C.
Glaucophane, Pennsylvania.—Bliss, E. F.
——, Ural Mts.—Duparc, L., 3.
Gleichenberg (Styria).—Winkler, A., 1, 2, & 5.
Gleichenia.—Knowlton, F. H.
Glen Fruin (Dumbartonshire).—Gwinnell, R. F.
Globigerina ooze.—Pirie, J. H. H.
Glockner Glacier (Tyrol).—Angerer, H.
Glossopteris.—Seward, A. C., 1 & 4.
Gloucestershire.—Hibbert, T.; Richardson, L., 3-5.
Glycimeris.—Chapman, F., 13; Rollier, L.
Glyphioceras.—Dollé, L.
Glyptobasis.—Roundy, P. V.
Glyptodon.—Rovereto, G., 4.
Gneiss, Erzgebirge. — Michel, H., 3; Pietzsch, K., 2.
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——, Lewis I.—Stevens, A.
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——, New Jersey.—Fenner, C. N., 2.
——, Simplon.—Preiswerk, H., 2.
——, Tauern.—Sander, B.
——, Ticino.—Gutzwiller, E.
Godstone (Surrey).—Davies, G. M.
Golabgarh Pass (Kashmir). — Seward, A. C.
Gold, Alaska.—Brooks, A. H.; Prindle, L. M.; Smith, P. S.
——, British Columbia.—Bateman, A. M., 2.
——, Burma.—Bion, H. S.
——, California. — Diller, J. S.; Ferguson, H. G.; Knopf, A., 3.
——, Canada.—Cartwright, C. T.
——, Colombia.—Anon., 55.
——, Congo Belge.—Ball, S. H.
——, German East Africa.—Barnitzke, J. E.; Kœrt, W.
——, Klondike.—Cadell, H. M.
——, Manitoba.—Wallace, R. C., 4.
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——, Oregon.—Diller, J. S., 2.

Gold, Portugal.—Choffat, P.
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——, Texas.—Dumble, E. T.
——, Transvaal.—Hall, A. L., 2.
——, Ural Mts.—Purington, C. W.
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——, Western Australia.—Blatchford, T. A., 2; Jutson, J. T.; Saint-Smith, E. C., 7; Woodward, H. P., 4–6.
——, Witwatersrand.—Horwood, C. B.
——, Yukon.—Cadell, H. M.
——, deposition of.—Lenher, V.
——, natural refining of.—Knopf, A.
Gold-copper-ore, cobaltiferous.—Simpson, E. S., 6.
Gold Coast (W. Afr.).—*See* Gold Coast, Government of the.
Golden (B.C.).—Allan, J. A.
Golden Bar Mine, Victoria.—Dunn, E. J., 9.
Golden Valley (W. Austr.).—Woodward, H. P., 7.
Goldfield (Nevada).—Ransome, F. L., 2.
Goldfields, Nova Scotia.—Malcolm, W.
Gomphoceras.—Mansuy, H., 3.
Gomshall (Surrey).—Davies, G. M.
Gondwana flora, Petchora Basin.—Zalessky, M. D.
Gondwana rocks, Malay Peninsula.—Scrivenor, J. B.
Goniatite-schists, Sierra Morena.—Groth, J., 2.
Goniatites.—Dollé, L.; Henke, W.; Pruvost, P., 5.
Goniolina.—Lignier, O., 9.
Goniometer.—Jezek, B., 2.
Goniomya.—Burwash, E. M.; Holdhaus, K.; Jeannet, A.
Goniophora.—Asselbergs, E.; Mansuy, H., 3.
Goniopygus.—Fourtau, R.
Goniospira.—Cossmann, A. E. M.
Goniurus.—Raymond, P. E., 5.
Gonodon.—Mansuy, H.
Gonotelma.—Pilgrim, G. E.
Goose Creek (Idaho).—Bowen, C. F., 2.
Goring (Berks.).—Gregory, J. W., 8.
Gorizia.—Kossmat, F., 3.
Gorodische (Penza Gov.).—Mirtchink, G. F.
Gosau Conglomerate, Lower Austria.—Grengg, R.
Gossans, cupriferous pyrite-.—Turner, H. W.
Gothland.—Crosfield, M. C.; Hedstrœm, H.; Munthe, H., 1 & 2; Rothpletz, A.
Gothlandian, Laizon Valley.—Bigot, A., 7.
Goulburn District (N.S.W.).—Carne, J. E.
Goyaz (Brazil).—Brauns, R., 4.
Graham I. (B.C.).—Clapp, C. H., 3.
Graham Land (Antarctica).—Lignier, O., 7; Pirie, J. H. H., 2.
Grammatodon.—Hind, W., 2.
Grammoceras.—Schirardin, J.
Grammysia.—Fuchs, A.
Granada (Spain).—Lozano, R. S., 2.
Grand Gulch (Arizona).—Hill, J. M., 3.
Grande, Rio (Argentina).—Gerth, H., 2.
Grandfield (Oklahoma).—Munn, M. J., 2.
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——, Black Forest.—Bubnoff, S. von.
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——, Congo Belge.—Ledoux, A., 2.
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——, Dartmoor.—Mennell, F. P., 2.
——, Finland.—Anon., 61.
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——, Molise.—Chelussi, I., 2.
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——, Quebec.—Dresser, J. A.
——, Saxony.—Etzold, F.
——, Siberia.—Weigel, O.
——, South Africa.—Cloos, H.
——, Toledo.—Mallada, L.
——, Transvaal.—Hall, A. L., 1 & 2.
——, Victoria.—Dunn, E. J.
——, Western Australia.—Blatchford, T. A., 2.
Granite, hydrothermal alteration of.—Moore, E. S., 3; Uglow, W. L.
——, origin of.—Lane, A. C.
—— dykes, Kimberley Mine.—Du Toit, A. L., 2; Schwarz, E. H. L., 3.
Granite-gneiss, Simplon.—Preiswerk, H., 2.
Granite-slate contact, Cape Province.—McDonald, D. P., 3; Schwarz, E. H. L.
Granite Creek (Victoria).—Dunn, E. J., 13.
Granitic magma.—Brun, A., 5; Ziegler, V.
Granitization.—Sederholm, J. J., 2.
Granodiorite, British Columbia.—Le Roy, O. E.
——, Victoria.—Summers, H. S.
Granulite, Maddalena I.—Lovisato, D.
——, Sweden.—Sjögren, H., 2.
Graphite.—Bœke, H. E., 3.
—— -coated diamonds.—Wagner, P. A.
Graptolitoidea, Ordovician.—Hall, T. S.; Raymond, P. E., 6.

Graptolitoidea, Silurian.—Elles, G. L., 3; Lassine, A.
Graptolitic faunas, British Ordovician.—Elles, G. L., 2.
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——, Landes.—Blayac, J.
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——, Portugal.—Choffat, P.
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Gravity, anomalies of.—Gilbert, G. K.
——, measurement of.—Pfaff, F. W., 3
——, terrestrial.—Spencer, J. W. W.
Graz (Styria).—Heritsch, F., 2; Hilber, V.; Stücker, N.
Great Britain, geological atlas of.—Woodward, H. B., 2.
—— ——, mines and quarries. — *See* GREAT BRITAIN, Home Office.
—— ——. *See also* GREAT BRITAIN, Geological Survey.
Great Lakes (N. Am.).—Taylor, F. B., 2 & 3.
Great Oolite, basement-beds of.—Walford, E. A., 2.
Great Serpentine Belt (N.S.W.).—Benson, W. N.
Great Whernside (Yorks). — Bisat, W. S.; Hind, W., 2.
Greece.—Eginitis, D.; Renz, C., 2–4.
——, Austrian palæontological expedition to.—Abel, O., 2.
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Greenhills District (N.Z.).—Thomson, J. A., 2.
Greenland.—Bøggild, O. B., 1 & 2.
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—— (Lower), Berkshire.—Treacher, Ll.
Grenchenberg Tunnel, Jura.—Buxtorf, A., 2.
Grenville Limestone.—Julien, A. A.
GRESSLY, A., *Biogr.*—*See* Linder, C.
Greymouth (N.Z.).—Morgan, P. G., 3.
Griffithides.—King, W. B. R.
Grimes' Graves.—Warburton, J. S.
Grisons (Switzerland).—Spitz, A.
Gröndal (Denmark).—Faber, H.
Grosspriesen (Bohemia).—Michel, H.
Groundhog Coalfield, British Columbia.—Malloch, G. S.
Grund-beds, Styria.—Heritsch, F., 2.
Gryphæa.—Jeannet, A.; Stephani, C. de.
Grypoceras.—Diener, C.; Smith, J. P.
Gryposaurus notabilis.—Lambe, L. M., 3.
Guadalmez (Sierra Morena).—Groth, J., 2.
Guajacum.—Menzel, P.
Guano, Transvaal.—Hall, A. L.
——, Western Australia. — Woodward, H. P.
Guarda (Palencia).—Lozano, R. S.
Guchab (German S.W. Africa).—Henglein, M., 2.
Guetiane Massif (Algeria).—Savornin, J., 2.
'Guillotine' trap-stones, palæolithic.—Smith, F.
Guinea, French.—Azéma, —; Lacroix, A., 2 & 11.
Gunnison (Colorado).—Hunter, J. F.; Larsen, E. S., 4.
Güntersthal (Baden).—Schnarrenberger, W., 3 & 5.
GÜNTHER, A. C. L. G., *Obit.*—*See* Anon., 11; Camerano, L.
Gunong Bakau (F.M.S.).—Scrivenor, J. B., 4.
Gunong Beser (Java).—Brouwer, H. A., 2.
'Guttensteiner Kalk,' the term. — Krauss, H., 2.
Gwinn (Michigan).—Allen, R. C., 2.
GWINNELL, R. F., *Obit.*—*See* Strahan, A., 2.
Gyalumare (Hungary).—Papp, K. von.
Gymnites.—Smith, J. P.; Toula, F.
Gymnocerithium.—Cossmann, A. E. M.; Jukovski, E.
Gypsina.—Rutten, L., 2.
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——, Canada.—Cole, L. H.
——, Iowa.—Kay, G. F.
——, anhydrite and.—Wallace, R. C.
——, dehydration of.—Gaudefroy, C., 2.
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Gyroporella.—Tommasi, A.

Hadranderaster.—Spencer, W. K.
Hæmatite, Dinant Basin.—Delmer, A.
——, Kakuk Mts.—Gonnard, F.
——, Madagascar.—Duparc, L., 6.
——, Nisiro I.—Grill, E., 3.
——, Vesuvius.—Cuccia, L.
Haenertsburg (Transvaal).—Hall, A. L., 2.
Hague, La (Manche).—Bigot, A., 3.
Hainault (Belgium).—Bertiaux, A., 1 & 2; Cornet, J., 1–4; Delépine, G.; Dubois, J.; Lassine, A., 2; Rahir, C.; Renier, A.; Stevens, C., 2; Wen-Hao, W.
Hakansson Mts. (Congo Belge).—Raffo, D.
Halberstadt (Prussia).—Brandes, T.
Halberstadt-Magdeburg Basin. — Harbort, E.
Halec.—Erasmo, G. d'.
Haliburton (Ontario).—Barlow, A. E.
Halle (Saxony).—Simon, M.
Hallopus.—Huene, F. von, 6.
Halobia.—Mansuy, H., 3.
Hamamelites.—Berry, E. W., 5.
Hamburg (Germany).—Wolff W.

Hammam Meskoutin (Algeria). — Joleaud, L., 2.
Hammatoceras.—Schirardin, J.
Hampshire. — César-Franck, R., 2; Morris, D.; White, H. J. O.
Hampstead Hill (London).—Lobley, J. L.
Hamulina.—Zwierzycki, J.
Hanover.—Grupe, O.; Harbort, E., 2; Kœnen, A. von; Stoller, J.; Tietze, O.
Hanover District (New Hampshire).—Merritt, J. W.
Haploceras.—Burwash, E. M.; Zwierzycki, J.
Haplophragmium.—Sherlock, R. L.
Harefield (Middlesex).—Davies, G. M.; De Salis, R. F.
Harengula.—Boghachev, V.
Harlow (Essex).—Irving, A., 4.
Harney Peak (Dakota).—Ziegler, V.
Harpes.—Reed, F. R. C., 4.
Harpoceras.—Meister, E.; Schirardin, J.
Hartberg (Styria).—Mohr, H.
Harvard Seismograph Station.—Woodworth, J. B.
Harzburg (Brunswick). — Schmidt, E. W.; Uhlig, J., 1 & 2.
Hassan District (Mysore). — Raghavendra Rao, S.
Haubourdin (Nord).—Pagniez, —, 1 & 2.
Hauenstein Tunnel, Jura.—Buxtorf, A., 2.
Hauerite.—Beutell, A.
Haugia.—Schirardin, J.
Hauraki (N.Z.).—Bell, J. M., 2; Henderson, J.
Haute-Loire (France).—Gonnard, F., 2.
Haute-Marne (France).—Gardet, G.
Haute-Savoie (France). — Favre, J.; Jukowski, E.
Hautes-Alpes (France).—Kilian, C. C. W., 4.
Hautrages (Hainault).—Cornet, J., 3.
Haüynite.—Galdieri, A.
Havant (Hampshire).—White, H. J. O.
Hawaii.—Cross, W.; Ferguson, J. B.
Hawthorn Formation, Florida. — Vaughan, T. W., 4.
Haydenites.—Smith, J. P.
Hazelton (B.C.).—Malloch, G. S., 2.
Heacham (Norfolk).—Lowerison, B.
Heathfield (Devon). — Jukes-Browne, A. J., 2.
Hebertella.—Foerste, A. F.
Hecticoceras.—Douvillé, R., 3.
Hedströmia.—Rothpletz, A.
HEIERLI, J., *Obit.*—*See* Sarasin, C.
Heiligenstein (Alsace).—Schirardin, J.
Helgeland (Nordland).—Vogt, T.
Helicodonta.—Harmer, F. W.
Helicon (Greece).—Renz, C., 4.
Heligoland.—Wolff, W.; Schrœder, H.
Heliolites.—Chapman, F., 8; Mansuy, H.
Helium, radioactivity and.—Moureu, C.
Helix.—Harmer, F. W.
Hell-Creek Beds, Montana.—Brown, B., 4.
Helmstedt (Saxony).—Schmierer, T.
Helodus.—Lambe, L. M.
Helsingfors (Finland).—Laitakari, A.
Hemiaster.—Fourtau, R.
Hemifusus.—Dickerson, R. E., 2.
Hemigyraspis.—Raymond, P. E., 3.
Hemihegetotherium.—Rovereto, G., 4.
Hemikreischeria.—Pruvost, P., 3.
Hemimastodon & *Hemimeryx.*—Pilgrim, G. E.
Hemington (Somerset).—Cantrill, T. C., 4.
Hemisinus.—Brown, A. P., 2.
Hemitragus.—Freudenberg, W.
Hensies (Hainault).—Renier, A.
Hepburn (Victoria).—Skeats, E. W.
Hérault (France).—Depéret, C.
Herbières (Hainault).—Cornet, J., 2.
Herby (Russia).—Levinski, J.
Hercoglossa.—Dickerson, R. E., 2.
Hercules & Energetic Mine, Bendigo.—Baragwanath, W.
Hermannsburg (Hanover).—Stoller, J.
Hermosiornis.—Rovereto, G., 4.
Herne Bay (Kent).—Davies, G. M.
Herpetopora.—Lang, W. D.
Hertford.—Barrow, G., 3; Hill, W.; Pocock, R. W., 3.
Hertfordshire.—Barrow, G., 3; Crosfield, M. C.; Hill, W.; Irving, A., 5; Kidner, H.; Pocock, R. W., 2 & 3; Withers, T. H., 2.
Hertingfordbury (Hertfordshire). — Barrow, G., 3.
Herzegovina.—Schubert, R.
Hesse. — Kayser, E., 4; Klemm, G.; Lepsius, R.; Steuer, A.
Hesse-Nassau. — Ahlburg, J., 1 & 2; Leppla, A.; Liebrecht, F.; Meyer, H. L. F., 1 & 3; Seyfried, E. von.
Heswall (Cheshire).—Strahan, A.
Hetærolite.—Ford, W. E., 5.
Heteroclypeus.—Lambert, J., 3.
Heterodiceras.—Jukovski, E.
Heterolepis.—Berry, E. W., 5.
Heteropora.—Canu, F.
Heterorhea.—Rovereto, G., 4.
Hewettite.—Hillebrand, W. F.
Hexapterospermum. — Carpentier, A., 2.
Hiddensee I. (Rügen).—Jækel, O., 2.
High Falls (N.Y.).—Brown, T. C.
Highland Border Series, Perthshire.—Jehu, T. J.
Hildoceras.—Meister, E.; Renz, C., 2.
Hilchenbach (Westphalia). — Denckmann, A.
HILL, W., *Obit.*—*See* Anon., 12.
Himalaya Mts. (Asia).—Workman, W. H.
Hindsia.—Smith, W. D.
Hintereis Glacier (Œtztal Alps). — Deeley, R. M., 3.
Hipparion.—Borissiak, A.; Merriam, J. C., 3.

Hippopotamus. — Schlesinger, G.; Stromer, E.
Hitachi (Japan).—Oyu, M., 2.
Hoa-Binh (Tongking).—Deprat, J.
Hochplatte (Chiemgau Alps).—Broili, F., 2.
Hodgkinsonite.—Palache, C., 1 & 3.
Hœrnes, R., *Obit.*—*See* Heritsch, F.
Hœrnesia.—Diener, C.
Hötting Breccia, Tyrol.—Ampferer, O.
Hofmann, A., *Obit.*—*See* Anon., 13; Slavik, F.
Hohe Venn (Rh. Prussia).—Stamm, K.
Hohentwiel (Baden).—Schnarrenberger, W., 7.
Holalkere (Mysore).—Slater, H. K.
Holasaphus.—Raymond, P. E., 2.
Holcodiscus & *Holcostephanus.* — Zwierzycki, J.
Holcospermum.—Nathorst, A. G., 4.
Holden, A. F., *Obit.*—*See* Anon., 14.
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Holectypus.—Fourtau, R.
Holland.—Bœke, H. E., 2; Gracht, W. A. J. M. van W. van der; Huffnagel, P.; Jongmans, W., 4; Klein, W. C., 2; Tesch, P., 1 & 2.
Hologyra.—Tommasi, A.
Holopea.—Foerste, A. F.; Roundy, P. V.
Holzapfel, E., *Obit.*—*See* Leidhold, C.
Homalostega.—Brydone, R. M.
Homburg v. d. Höhe (Hesse-Nassau).—Leppla, A.
Homo, German East Africa.—MacCurdy, G. G., 2.
——, Pleistocene.—Hughes, T. M.
——, Quaternary.—Dawson, C.; Gagel, C., 3; Maynard, G., 3; Merriam, J. C., 5; Spackman, F. T., 2; Wiegers, F., 2.
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Homocrinus.—Kirk, E.
Homomya.—Holdhaus, K.; Rollier, L.
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Horioceras.—Douvillé, R., 3.
Hormotoma.—Foerste, A. F.
Hornblende.—Ford, W. E., 4.
Hornblendite.—Washington, H. S., 2.
Hornera.—Canu, F.
Hornstone, Tasmania.—Noetling, F., 2.
Horschinek, A., *Obit.* — *See* Tietze, E. E. A., 2.
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——, prehistoric.—Irving, A., 3.
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Horseshoe Bend (Idaho). — Bowen, C. F.
Hostimella.—Goldschmidt, V. M.
Houtzdale (Pennsylvania).—Ashley, G. H.
Howth (Co. Dublin).—Stokes, H.
Huasco, Valle de (Chile).—Brüggen, J., 2 & 4.
Hudson Bay region (Canada).—Tyrrell, J. B., 1 & 2.
Hudson-Champlain Valley (N. Am.).—Fairchild, H. L.
Hügelland (Vienna).—Götzinger, G., 3.
Hunan (China).—Frech, F., 2.
Hundsheim (Lower Austria).—Freudenberg, W.
Hungarites.—Diener, C.; Kormos, T., 2.
Hungary.—Ballenegger, R.; Ehik, J.; Emszt, K.; Gonnard, F.; Halavats, G. von, 1 & 2; Hillebrand, E.; Horusitzky, H.; Horvath, B. von; Inkey, B. de; Jugovics, L.; Kormos, T., 2; Laszlo, G. von; Lazar, B.; Liffa, A.; Loczy, L. von, *fil.*; Maros, E. von; Mauritz, B., 2; Noszky, E.; Palfy, M. von; Papp, K. von, 1 & 2; Pitter, T.; Posewitz, T., 1–3; Réthly, A.; Roth von Telegd, K.; Rozlozsnik, P.; Scharizer, R.; Schreter, Z.; Strömpl, G.; Szinye, S. M. von; Szontagh, T. von; Tæger, H.; Timko, E.; Treitz, P.; Vendl, A., 1–3; Winkler, A., 4.
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Huon's Hill (Victoria).—Dunn, E. J., 10.
Hu-pei (China).—Weld, C. M.
Huron, Lake (Canada).—Leverett, F., 6.
Huronian, Michigan.—Allen, R. C., 1 & 3.
Hustedia.—Kozlovski, R.
Hustler's Reef, Bendigo.—Whitelaw, H. S.
Hurdle Flat (Victoria).—Dunn, E. J., 11.
Huttonia.—Kidston, R.
Huveaune R. (Bouches-du-Rhône). — Haug, E., 2.
Hyacinth.—Souza-Brandão, V., 4.
Hyæna.—Freudenberg, W.
Hyænodonops.—Rovereto, G., 4.
Hydrargillite.—Zambonini, F.
Hydrothermal alteration.—Uglow, W. L.
Hydrozoa, Carboniferous.—Barbour, E. H.
——, Devonian.—Pæckelmann, W.
——, Silurian.—Chapman, F., 8; Rothpletz, A.
——, Tertiary.—Lotz, H.
Hygromia.—Harmer, F. W.
Hyoboops.—Pilgrim, G. E.
Hyolithes.—Liebrecht, F.
Hypacrosaurus.—Brown, B., 2; Gilmore, C. W.
Hypocrinus.—Bather, F. A., 3.
Hypohippus.—Merriam, J. C., 2.
Hypothyris Limestone, Belgium.—Delhaye, F.
Hypsipleura.—Cossmann, A. E. M.
Hyracotherium.—Anon., 52.
Hystricurus.—Raymond, P. E., 5.
Hystrix.—Freudenberg, W.

Hythe (Kent).—Davies, G. M.
Hyūga Prov. (Japan).—Katō, T., 3.

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Iberian Peninsula.—Grosch, P.
Ibex.—Freudenberg, W.
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——, stream-flow and.—Hoyt, W. G.
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—— ——, Germany.—Wolff, W., 3.
—— ——, Tasmania.—Noetling, F., 5.
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Ice-crystals.—Fermor, L. L., 3.
—— ——, hemimorphous.—Stecher, E.
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—— ——, Trent Basin.—Deeley, R. M.
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Ice-recession, period of, in Ångermanland.—Liden, R.
Ice-sheet, North American. — Upham, W., 3.
—— ——, Lancashire.—Jowett, A.
Iceland.—Thoroddsen, T.
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Ickleton (Essex).—Anon., 50.
Ictidorhinus.—Broom, R., 8.
Idaho (U.S.A.).—Bowen, C. F., 1 & 2; Calkins, F. C.; Richards, R. W., 2 & 3; Stewart, C. A.; Umpleby, J. B., 1–5.
Iditarod (Alaska).—Brooks, A. H.
Idria (Carniola).—Kossmat, F.
Iglau (Moravia).—Hackl, O.
Iglesias (Sardinia).—Novarese, V.
Igneous magmas, Sardinia.—Deprat, J., 11.
—— ——, pelitic sediments & differentiation of.—Hobbs, W. H., 2.
Igneous rock provinces.—Stark, M.
Igneous rocks, Alaska.—Prindle, L. M.; Smith, P. S.
—— ——, Alps.—Sacco, F.
—— ——, Andes.—Douglas, J. A.
—— ——, Arizona.—Robinson, H. H.
—— ——, Ayrshire.—Tyrrell, G. W.
—— ——, Bermuda.—Pirsson, L. V., 2.
—— ——, British Columbia.—Le Roy, O. E.
—— ——, Clare I.—Cole, G. A. J., 3.
—— ——, Colorado.—Cross, W., 3.
—— ——, Congo Belge.—Ledoux, A., 2.
—— ——, Cornwall.—Dewey, H.
—— ——, Crimea.—Arschinow, W. W., 2.
Igneous rocks, Erzgebirge.—Michel, H., 3.
—— ——, Federated Malay States. — Scrivenor, J. B., 4.
—— ——, Galway.—Gardiner, C. I.
—— ——, Hungary.—Halavats, G. von.
—— ——, Ireland.—Hallissy, T.
—— ——, Madagascar. — Giraud, L.; Lacroix, A., 12.
—— ——, Madeira.—Finckh, L.
—— ——, Massachusetts & Maine.— Keeley, F. J.
—— ——, Montana.—Winchell, A. N.
—— ——, New South Wales.—Benson, W. N.
—— ——, New York.—Fettke, C. R.
—— ——, New Zealand.—Bartrum, J. A., 3; Henderson, J.
—— ——, Ontario.—Lawson, A. C.
—— ——, Pantelleria I. —Washington, H. S., 4.
—— ——, Portugal. — Souza-Brandão, V., 3.
—— ——, Quebec. — Dresser, J. A.; O'Neill, J. J.
—— ——, Rhenish Bavaria.—Schuster, M., 2.
—— ——, Roccamonfina.—Galdieri, A.
—— ——, Ross-shire.—Peach, B. N., 2.
—— ——, Roxburghshire. — McRobert, Lady.
—— ——, Siberia.—Weigel, O.
—— ——, South Australia. — Mawson, D., 2.
—— ——, Styria.—Winkler, A.
—— ——, Sweden. — Gavelin, A., 2; Grönwall, K. A., 2.
—— ——, Transvaal.—Hall, A. L., 2 & 3; Humphrey, W. A., 3.
—— ——, Victoria.—Morris, M.; Summers, H. S.
—— ——; Virginia. — Watson, T. L., 2 & 3.
Igneous rocks, average analyses of. — Mead, W. J.
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—— ——, quantitative classification of. —Lane, A. C., 3.
—— ——, saturation-classification of.— Scott, A., 5; Shand, S. J.
—— ——, clay-structure and. — Longchambon, M., 6.
—— ——, genesis of.—Johnston-Lavis, H. J.; Kirkpatrick, R.
—— ——, metals and.—Fearnsides, W. G., 2.
—— ——, Ordovician.—Cox, A. H.
—— ——, parallel structure in. — Klemm, G., 2.
—— ——, petrology of.—Hatch, F. H., 4.
—— ——, prismatic columns in.—Longchambon, M.
—— ——, pyroxene in.—Weich, A.
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Iguanodon.—Ballerstedt, M.
Ilfracombe (Devon).—Valpy, R. H.
Ilkley (Yorkshire).—Burrell, B. A.
Illænus.—Reed, F. R. C., 4.
Ille-et-Vilaine (France).—Bézier, T., 2.
Illibarook (Victoria).—Dunn, E. J., 3.
Illicium.—Berry, E. W., 5.
Illinois (U.S.A.) — Blatchley, R. S.; Bushnell, D. I.; Crook, A. R.; Savage, T. E., 1 & 2; Stevenson, L. W., 2 & 3.
Ilmen Mts. (Russia).—Vorobiev, A. L.
Ilmenite.—Bianchi, A., 1 & 2; Duparc, L., 6; Lahee, F. H., 3.
Ilovlia R. (Don Prov.). — Semikhatov, A. N.
Immendingen (Baden).—Spitz, W.
Imperial Institute, South Kensington.—Evans, J. W., 3.
Implements, flint & stone.—Baudouin, M., 2; Clarke, W. G., 2; Cotte, C.; Coutil, L.; Currelly, C. T.; Dawson, C., 1 & 2; Debruge, A.; Dewey, H.; Dove, H. S.; Edwards, W. H.; Gray, J. W.; Halls, H. H.; Haward, F. N.; MacCurdy, G. G.; Moir, J. R., 1, 2, 4, & 5; Nœtling, F., 1, 2, & 6; Peake, A. E.; Schwartz, A.; Seton-Karr, H. W.; Smith, F., 1 & 2; Smith, R. A., 1 & 2; Sollas, W. J.; Studt, F. E., 2; Warburton, J. S.; Warren, S. H., 2 & 3; Wiegers, F., 2; Wilson, E. T.; Winchell, N. H.
Indalsälfven (Sweden).—Carlzon, C.
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——, Geological Survey of. — Hayden, H. H.
——, isostasy in.—Bowie, W.
——, mica-production of.—Dixon, A. F.
——, mineralogy of ancient. — Sarkar, B. K.
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Indiana (U.S.A.).—Elkins, M. G.
Indo-China. — Deprat, J., 1, 5, & 6; Durandin, P.; Mansuy, H., 2 & 3; Tronquoy, R., 2.
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Indre-et-Loire (France).—Lecointre, G.
Inferior Oolite, Gloucestershire & Somerset.—Richardson, L., 1 & 4.
Infiesto (Asturias).—Mengaud, L., 2.
Ingleton (Yorkshire).—Hawkesworth, E.
Injection-gneiss.—Schardt, H.
—— ——, Ticino.—Gutzwiller, E.
Inn Valley (Tyrol).—Hahn, F. F.
Innertkirchen (Berne).—Arbenz, P., 2.
Innoko (Alaska).—Brooks, A. H.
Innsbruck (Tyrol).—Ampferer, O.
Innviertel (Austria).—Till, A.
Inoceramus.—Böhm, J., 2; Holdhaus, K.; Jodot, P.; Meunier, S.; Stefani, C. de.
Insecta, Carboniferous.—Peach, B. N.; Pruvost, P., 6; Schlechtendal, D. von.
——, Coal-Measures.—Bolton, H.
——, Miocene. — Cockerell, T. D. A., 1 & 2; Wickham, H. F.
——, Quaternary.—Henriksen, K. L.
——, Tertiary.—Bagnall, R. S.
——, venation in.—Cockerell, T. D. A., 2.
Interglacial beds, earliest. — Coleman, A. P., 3.
—— deposits, Brandenburg.—Korn, J., 3.
—— ——, Eifel.—Pohlig, H.
—— ——, Germany.—Wahnschaffe, F., 4.
—— ——, Rhenish Prussia. — Krause, P. G.
—— —— (fossil-bearing), Saxony. — Schmierer, T., 2.
—— ——, Silesia.—Guerich, G.
—— ——, Wexford.—Cole, G. A. J., 2.
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—— ——, Germany.—Wolff, W., 3.
—— ——, Minnesota.—Upham, W., 2.
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Inverness-shire.—Gregory, J. W., 11.
Inverness Firth.—Ogilvie, A. G.
Inyo County (California).—Gale, H. S., 3.
Inyo Mt. (California).—Knopf, A., 3.
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Iodargyrite.—Friedel, G., 3.
Ione Formation, California.—Dickerson, R. E., 3.
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Iregua R. (Spain).—Garin y Modet, J.
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—— (N.W.), gneisses & amphibolites in.—Cole, G. A. J.
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Iron, Alabama. — Burchard, E. F.; Phillips, W. B.
——, Ardennes.—Cayeux, L., 2.
——, Brazil.—Harder, E. C.
——, British Columbia.—*See* British Columbia.
——, Bulgaria.—Scott, H. K.
——, Calvados.—Cayeux, L., 4.
——, Canada.—McLeish, J., 2; *see also* Canada, 1 & 3.

Iron, Chile.—Brüggen, J., 2 & 4; Vattier, C.
——, China.—Weld, C. M.
——, Colorado.—Jennings, E. P.
——, Congo Belge.—Ball, S. H.
——, France.—Nicou, P.; Riaz, A. de.
——, Georgia.—Burchard, E. F.
——, German East Africa.—Kœrt, W.
——, Kentucky.—Whinery, S.
——, Lake-Superior region. — Geijer, P.
——, Lapland.—Geijer, P., 2.
——, Mayenne.—Kerforne, F.
——, Michigan.—Allen, R. C., 1 & 2.
——, Minnesota. — Barneveld, C. E. van; Zapffe, C.
——, Missouri.—Lee, Wallace.
——, New Brunswick.—Lindeman, E., 2.
——, Newfoundland.—Hayes, A. O.
——, Ontario.—Lindeman, E.
——, Orne.—Bigot, A., 5.
——, Philippine Is. — Dalburg, F. A.; Eddingfield, F. T.
——, Portugal.—Choffat, P., 2.
——, Queensland.—Newman, J. M., 2.
——, Savoy.—Hollande, D.
——, Scotland.—Macadam, I.
——, Siberia.—Weigel, O.
——, Sweden.—Tegengren, R.
——, Tennessee. — Burchard, E. F.; Whinery, S.
——, Togoland.—Kœrt, W.
——, Wisconsin.—Thwaites, F. T.
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Ironstone, Warwickshire & Oxfordshire. —Walford, E. A.
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Isar (Bavaria).—Klebelsberg, R. von, 2.
Isculites.—Diener, C.
Iser Mts. (Germany).—Rimann, E.
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Iserlohn (Westphalia).—Henke, W.
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Isoarca.—Jukovski, E.; Rollier, L.
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Isocyprina.—Rollier, L.
Isomorphism, calcite & dolomite. — Foote, H. W.
Isomyopotamus.—Rovereto, G., 4.
Isopoda, Carboniferous.—Pruvost, P.
Isostasy.—Bowie, W., 1–3; Fermor, L. L., 2.
Isotelus.—Foerste, A. F.; Raymond, P. E., 3 & 8.
Istria.—Schubert, R.
'Itabirite' iron-ores, Brazil. — Harder, E. C.
Italy, Tertiary sedimentary rocks.— Chelussi, I., 4.
—— (N.), *Cyprina-islandica* Beds. — Gignoux, M., 2.
——. *See also* Liguria, *&c.*
Itieria.—Jukovski, E.
Ivory Coast (W. Africa).—Azéma, —.

Jablanac (Croatia).—Koch, F.
Jachenau (Bavaria). — Klebelsberg, R. von, 2.
Jackson (New Hampshire). — Foshay, P. M.
JACKSON, T. M., *Obit.*—*See* White, I. C.
Jämtland (Sweden). — Carlzon, C.; Frödin, G., 1 & 2; Hägg, R., 2; Sandegren, R., 2.
Jalisco (Mexico).—Ordoñez, E.
Jamesonite.—Lindgren, W., 2; Slavik, F., 2.
Jamieson (Victoria).—Chapman, F., 9.
Jaminia.—Harmer, F. W.
Japan.—Anon., 58; Davison, C., 2 & 5; Deprat, J., 6; Kozu, S.; Nishio, K.; Omori, F., 1–4; Oyu, M., 2; Sieberg, A., 4; Szirtes, S.; Yabe, H., 1 & 2.
Japonites.—Toula, F.
Java (D.E.I.). — Brouwer, H. A., 2; Rutten, L.
Jech Doab (Punjab).—Heron, A. M.
Jerez y Zahinos (Badajoz).—Sacristan, J.
Jersey.—Dunlop, A.; Jenkins, A. J.
Jerusalem Valley (Idaho).—Bowen, C. F.
Jervois County (S. Austr.).—Jack, R. Lockhart, 2.
Jezekite.—Slavik, F., 3.
Jodotella.—Morellet, L.
Joggins (Nova Scotia).—Bell, W. A.
Johnson County (Wyoming).—Wegemann, C. H.
JOHNSTON-LAVIS, H. J., *Obit.* — *See* Anon., 15; Davison, C., 3.
Joints, spacing of.—Scott, I. D.
Joplin (Missouri).—Wright, C. A.
Judith-River Beds, Montana. — Stebinger, E., 2; Sternberg, C. H., 2.
Juglans.—Berry, E. W., 5.
JUKES, J. B., *Correspondence*. — *See* Browne, C. A.
Jukes, Mt. (Tasmania).—Hills, L.
JUKES-BROWNE, A. J., *Obit.* — *See* Anon., 16; Judd, J. W., 5.
Jura, French. — Fournier, E., 3 & 4; Piroutet, M.; Révil, J., 2.
——, Swiss.—Buxtorf, A., 2; Rollier, L.; Salfeld, H., 3; Schuh, F.; Struebin, K.
Jurassic, Argentina.—Bodenbender, G.; Sokolov, D. N.
——, Baden.—Deecke, W.; Schnarrenberger, W., 6; Spitz, W.
——, Basel.—Struebin, K.
——, Basses-Alpes.—Lanquine, A.

Jurassic, Bavaria.—Broili, F., 2; Krauss, H.
——, Berne.—Arbenz, P., 2; Hummel, K., 2; Schuh, F.
——, Bolivia.—Douglas, J. A.
——, British Columbia.—Bancroft, J. A.
——, Brunswick & Magdeburg.—Harbort, E.
——, Calvados.—Dollfus, G. F., 3.
——, Colorado.—Cross, W., 4.
——, Côte d'Or.—Collot, L.
——, Europe (N.W.).—Salfeld, H., 3.
——, German East Africa.—Hennig, E.
——, Germany (S.).—Salfeld, H., 2.
——, Greece.—Renz, C., 2.
——, Haute-Savoie.—Jukovski, E.
——, Oxfordshire.—Walford, E. A., 3.
——, Peru.—Douglas, J. A.
——, Sardinia.—Krasser, F.
——, Saxony.—Schmierer, T.
——, South America.—Jaworski, E., 2.
——, Suez.—Douvillé, H., 4.
——, Sumatra.—Volz, W.
——, Uri.—Arbenz, P.
——, Var.—Haug, E.; Lanquine, A.
——, Vaud.—Jeannet, A.
——, Yorkshire.—*See* BRITISH ASSOCIATION COMMITTEE, 6.
——. *See also* Bathonian, *&c.*
Jutland.—Ravn, J. P. J.

Kadur District (Mysore).—Iyengar, P. S.
Kainozoic, Australia.—Chapman, F., 4.
Kaiserstuhl (Aargau).—Sœllner, J.
Kakuk Mts. (Hungary).—Gonnard, F.
Kakwa R. (Urals).—Duparc, L., 8.
Kalahari Desert (S. Africa).—Rimann, E., 3.
Kalgoorlie (W. Australia).—Farquharson, R. A.; Feldtmann, F. R.
Kaliophilite.—Zambonini, F.
Kalusz (Galicia).—Schreiber, H.
Kamenz (Saxony).—Weise, E.
Kames, åsar and.—Philipp, H.
Kampenwand (Bavarian Alps).—Broili, F., 2.
Kangaroo Gully (Victoria).—Skeats, E. W., 2.
Kangerdluarsuk (Greenland).—Böggild, O. B., 1 & 2.
Kanikawinika I. (Quebec). — Wilson, M. E., 2.
Kannambadi (Mysore).—Balaji Rao, B.
Kansan, Nebraska.—Barbour, E. H., 3.
Kansas (U.S.A.).—Gould, C. N., 1 & 2; Haworth, E.; Meinzer, O. E.; Sternberg, C. H.; Twenhofel, W. H.; Winchell, N. H.; Wooster, L. C.; Young, C. C.
Kaolin.—Samojlov, J.
——, South Australia.—Ward, L. K., 6.
Kara-Dagh (Crimea).—Brincken, O. A.
Karakorum Mts. (Kashmir). — Workman, W. H., 1 & 2.
Karawanken Tunnel (Austria).—John, C. von; Teller, F.
Kareim (Egypt).—Ferrar, H. T.
Karroo Sandstones, pyritic concretions in.—Young, R. B., 3.
Karroo System.—Hall, A. L., 2; Lightfoot, B.; Maufe, H. B.; Watson, D. M. S., 12.
Kasai Basin (Congo Belge).—Kostka, R.; Ledoux, A., 2.
Kashmir.—Diener, C.; Seward, A. C.; Workman, W. H., 1 & 2.
Kashmirites.—Diener, C.
Katakekaumene Volcano (Lydia). — Kœnigsberger, J., 4.
Katanga (Congo Belge).—Corstorphine, G. S.; Fourmarier, P.; Range, P.; Studt, F. E., 1 & 2.
Kathiawar (India).—Adye, E. H.
Katosira.—Cossmann, A. E. M.; Krauss, H.
Kawarren (Victoria).—Dunn, E. J., 5.
Keewatin Series, Ontario.—Lawson, A. C.
Kelmscott (W. Austr.).—Honman, C. S.
Kemble (Glos.).—Richardson, L., 5.
Kent.—Chandler, R. H.; Davies, G. M.; Dewey, H., 2; Finch, W. C.; Handcock, E. W.; Smith, R. A., 2.
Kent Coalfield.—Arber, E. A. N., 5 & 7; Dawkins, W. B.; Krusch, P.
Kent's Cavern (Torquay).—Hunt, A. R.; *see also* TORQUAY NATURAL HISTORY SOCIETY.
Kentucky (U.S.A.). — Foerste, A. F.; Hovey, H. C.; Jeffrey, E. C., 4; Martel, E. A., 3; Munn, M. J., 1 & 3; Stephenson, L. W., 2 & 3; Whinery, S.
Kentucky R. (U.S.A.).—Fenneman, N. M.
Kephalonia I. (Greece).—Renz, C., 2.
Keratophyre, Western Australia.—Farquharson, R. A.; Feldtmann, F. R.
Kerch (Crimea).—Gorodtzov, B. A., 2.
Kerns (Unterwalden).—Buxtorf, A.
Ketchikan (Alaska).—Brooks, A. H.
Kettle R. (B.C.).—Wilson, W. J.
Keuper, Basel.—Leuthardt, F.
——, Cheshire.—Beasley, H. C., 1 & 3; Maidwell, F. T.
——, Staffordshire.—Beasley, H. C., 4.
——, Warwickshire & Worcestershire.—Wills, L. J.
——, footprints from.—Maidwell, F. T., 2.
Kewagama Lake (Quebec).—Wilson, M. E.
Keweenawan Fault.—Lane, A. C., 2.
Kharga (Egypt).—Beadnell, H. J. L.
Kibara Mts. (Congo Belge).—Raffo, D.
Kilauea (Hawaii).—Brun, A., 1 & 4; Day, A. L., 1 & 3.
Kilimanjaro (German East Africa). — Kœrt, W.
Kilkenny County (Ireland). — *See* BRITISH ASSOCIATION COMMITTEE, 5.

Kiltorcan (Co. Kilkenny).—*See* BRITISH ASSOCIATION COMMITTEE, 5.
Kimberley (Cape Province).—Broom, R., 10.
Kimberley Mine (Cape Province).—Du Toit, A. L., 2; Schwarz, E. H. L., 3.
Kimmeridgian, Germany.—Salfeld, H., 3.
——, Wiltshire.—Jukes-Browne, A. J., 3.
King Edward Mine (Camborne).—Lees, P. B.
King I. (Bass Strait).—Anderson, W.
King's County (Ireland).—Haigh, W. D.
Kinjal, Mt. (Caucasus). — Arschinow, W. W.
KINKELIN, G. F., *Obit.*—*See* Drevermann, F., 2.
Kinkell Cave (St. Andrews).—Jehu, T. J., 2.
Kinta Valley (F.M.S.). — Scrivenor, J. B., 3 & 5.
Kinzigtal (Baden). — Schnarrenberger, W., 2.
Kiona (Greeee).—Renz, C., 4.
Kipawa, Lake (Quebec).—Wilson, M. E., 2.
Kirana Hills (Punjab).—Heron, A. M.
Kirchhundem (Westphalia). — Denckmann, A.
Kirillow (Novgorod).—Licharev, B.
Kirkcaldy (Fife).—Flett, J. S., 2.
Kirwin (Wyoming).—Hewett, D. F.
Kisa (Sweden).—Svedmark, E.
Kisii Highlands (British E. Africa).—Oswald, F.
Kiskevély cave (Hungary).—Hillebrand, E.
Kissale, Lake (Congo Belge).—Raffo, D.
Kithæron Mts. (Greece).—Renz, C., 4.
Kitticoola (S. Austr.).—Jack, R. Lockhart.
KITTL, E., *Obit.*—*See* Trauth, F.
Kiushiu I. (Japan).—Nishio, K.
KJELLSTRÖM, C. J. O., *Obit.*—*See* Erdmann, E.
Kladno (Bohemia).—Jezek, B.
Klagenfurt (Carinthia).—Teppner, W., 2.
Klipriversberg (Transvaal).—McDonald, D. P., 2; Mellor, E. T., 2.
Klondike (Canada). — Cadell, H. M.; MacLean, T. A.
Klosterkogel (Styria).—Kittl, E.
Knaresborough (Yorks.). — Hawkesworth, E.
Knebworth (Herts.).—Hill, W.
Knockholt (Kent).—Davies, G. M.
Knorria.—Nathorst, A. G., 4.
Kobuk (Alaska).—Smith, P. S.
Kodiak (Alaska).—Brooks, A. H.
Kodurite Series, India.—Cross, W., 2.
Königsbach (Baden).—Schnarrenberger, K.
Königsberg (Prussia).—Hess von Wichdorff, H.
Königslutter (Brunswick).—Harbort, E.
Kolar Goldfield (Mysore).—Watson, H. E.
Komati R. (Transvaal).—Draper, D.
Kootenay (B.C.).—Schofield, S. J.
Kopais Mts. (Greece).—Renz, C., 3 & 4.
Korombili Mts. (Greece).—Renz, C., 4.
Kosd (Hungary).—Jugovics, L.
Kota Kota meteorite.—Prior, G. T.
Kozaki (Japan).—Kozu, S.
Krähen (Baden).—Schnarrenberger, W., 7.
Krasnaja Rjetschka (Siberia).—Weigel, O.
Kreischeria.—Pruvost, P., 3.
Krems (Lower Austria).—Menzel, H., 2.
Kremsier (Moravia).—Oppenheim, P.
Krishnarajpete (Mysore).—Raghavendra Rao, S.
Krottenkopf (Bavaria). — Klebelsberg, R. von, 2.
Kuban (Russia).—Calder, W.; Gubkin, J.
Kuckers (Esthonia).—Born, A.
Kudremukha (Mysore).—Iyengar, P. S.
Kudzsir (Hungary).—Liffa, A.
Kula (Lydia).—Kœnigsberger, J., 4.
Kupferberg (Silesia).—Berg, G., 1 & 2; Zimmermann, E., 1.
Kurile Is. (Japan).—Szirtes, S.
Kursk Govt. (Russia). — Chirvinski, P. N.
Kwantung Peninsula.—Smith, W. D.
Kwenlun Mts. (Tibet).—Leuchs, K., 3.
Kyanite.—Kittl, E., 2.
Kylburg (Baden).—Schnarrenberger, W., 5.
Kyll R. (Germany).—Asselbergs, E.
Kyshtim (Russia).—Stickney, A. W.

Laacher See (Rhenish Prussia). — Ledoux, A.
Laaerberg (Vienna).—Schlesinger, G., 2.
Labidosaurus.—Williston, S. W., 2 & 3.
Labourd Massif (Pyrenees).—Fournier, E.
Labyrinthodontidæ, occiput of.—Wiman, C.
Lacazina.—Rutten, L., 2.
Laccolites, Montana. — Knopf, A., 2; Lawson, A. C., 3.
——, Roxburghshire. — McRobert, R. W., Lady.
——, petrogenesis and.—Daly, R. A.
'Laccolith,' the term.—Lawson, A. C., 3.
Lacroixite.—Slavik, F., 3.
Lagena.—Sherlock, R. L.
Lagenospermum.—Nathorst, A. G., 4.
Lagenostoma.—Kidston, R.
Lahn porphyry.—Meyer, H. L. F., 3.
Lahn Valley (Hesse-Nassau).—Ahlburg, J.
Lähn (Silesia).—Kühn, B.
Lahontan, Lake (Nevada).—Jones, J. C.
Lahr (Baden).—Lais, R.
Laizon Valley (France).—Bigot, A., 7.
Lake-basins, Alpine.—Lugeon, M., 5.

Lake District, English.—Mantle, H. G.
Lake-research, problems of.—Halbfass, W.
Lake-sediments, Abruzzi.—Clerici, E.
Lakes (extinct), Egypt.—Beadnell, H. J. L.
—— (post-glacial), Lapland.—Ahlmann, H. W.
——, Victoria.—Hall, T. S., 2.
——, Western Australia.—Gregory, J. W., 6.
—— (Quaternary), United States.—Gale, H. S.
Lakes, tectonics of Scottish.—Gregory, J. W., 11.
Lambdotherium.—Osborn, H. F., 5.
Lamellibranchia.—Haas, F., 2.
——, Carboniferous.—Mansuy, H., 3; Pruvost, P., 5.
——, Cretaceous.—Böhm, J., 2; Burwash, E. M.; Etheridge, R., *fil.*; Jodot, P.; Jukovski, E.; Meunier, S.; Negre, G., 2; Rollier, L.; Stefani, C. de; Stephenson, L. W., 2 & 3; Zuffardi, P., 2.
——, Devonian.—Asselbergs, E.; Fuchs, A.; Liebrecht, F.; Pæckelmann, W.; Pruvost, P., 4.
——, Eocene.—Dickerson, R. E., 2; Dylevski, A.; Pocock, R. W.; Vincent, E.
——, Jurassic.—Douglas, J. A.; Jeannet, A.; Jukovski, E.; Paris, E. T.; Rollier, L.; Struebin, K.
——, Liassic.—Dareste de la Chavanne, J.; Jaworski, E., 3.
——, Millstone Grit.—Hind, W., 2.
——, Miocene.—Dollfus, G. F., 9; Nelli, B.; Pavai Vajna, F. von.
——, Oligocene.—Oppenheim, P., 2.
——, Ordovician.—Foerste, A. F.
——, Palæozoic.—Mansuy, H., 3.
——, Permian.—Licharev, B.
——, Permo-Carboniferous.—Mansuy, H., 2.
——, Pliocene.—English, W. A.; Harmer, F. W.; Martin, B.
——, Quaternary.—Smith, W. D.
——, Silurian.—Williams, H. S.
——, Spiti Shales.—Holdhaus, K.
——, Tertiary.—Boghachev, V.; Bucher, W.; Chapman, F., 13; Lotz, H.; Mansuy, H., 3; Oppenheim, P.; Packard, E.; Smith, W. D.; Struebin, K.; Teppner, W., 4.
——, Triassic.—Böhm, J.; Diener, C.; Krauss, H.; Mansuy, H., 1 & 3; Smith, J. P.; Troxell, E. L.
——, classification of.—Douvillé, H.
Lamiasaurus.—Watson, D. M. S., 4.
Lamna.—Lotz, H.; Stefani, C. de.
LAMONT, Sir JAMES, *Obit.*—*See* Strahan, A., 2.
Lanarkshire.—Dron, R. W.
Lancashire.—Denning, W. F.; Jones, T. A.; Jowett, A.; Travis, C. B., 2.
Lance Formation.—Lloyd, E. R.
—— ——, Montana.—Rogers, G. S., 2.
—— ——, Wyoming.—Brown, B., 4.
Land-connexions, South America & Africa.—Maury, C. J.
Landenian, Hainault.—Stevens, C., 2.
Landes (France).—Blayac, J.; Harlé, E.; Lambert, J., 4.
Landsee (Hungary).—Winkler, A., 4.
Landslides.—Dahlblom, T.; Hovey, E. O.; Howe, E.; McDonald, D. F., 2.
Lanistes.—Oswald, F.
Lansdown (Bath).—Winwood, H. H.
Laos (Annam).—Deprat, J.
Laosia.—Mansuy, H., 2.
La Paz (Bolivia).—Douglas, J. A.
Lapland.—Ahlmann, H. W.; Bergeat, A.; Geijer, P., 2.
Lapworthura.—Spencer, W. K., 2.
Laramie, New Mexico.—Sinclair, W. J.
Lare (Var).—Repelin, J., 4.
Larix.—Menzel, P.
Larvaria.—Morellet, L.
LASPEYRES, E. A. H., *Obit.*—*See* Anon., 17.
Lassen Peak (California).—Diller, J. S., 3.
Las Vegas (New Mexico).—Case, E. C.
Latax.—Taylor, W. P.
Laterite, French Guinea.—Lacroix, A., 2 & 11.
——, Madagascar.—Lacroix, A., 14.
——, Mozambique.—Holmes, A.
Latium (Italy).—Meli, R.; Moderni, P.; Rosati, A.
Lauenburg (Pomerania).—Jentzsch, A., 4.
Laurentian, Ontario.—Lawson, A. C.
Laurie I. (South Orkney Is.).—Pirie, J. H. H., 2.
Laurophyllum.—Berry, E. W., 5.
Laurus.—Berry, E. W., 5; Kristofovič, A.; Menzel, P.
Lausitz Massif (Saxony).—Beger, P. J.
Lava, Alaska.—Capp, S. R.
——, Ambrym.—Lacroix, A., 13.
——, Arizona.—Robinson, H. H.
——, Ayrshire.—Tyrrell, G. W.
——, Bermuda.—Pirsson, L. V., 2.
——, Eigg I.—Bailey, E. B., 2.
——, French West Africa.—Hubert, H.
——, Hawaii.—Cross, W.
——, New Zealand.—Marshall, P.
——, Pantelleria.—Washington, H. S., 4.
——, Rhenish Bavaria.—Schuster, M., 2.
——, Utah.—Butler, B. S., 2.
——, Yunnan.—Burton, R. C.
Lawrence County (Illinois).—Blatchley, R. S.
Lead, British Columbia.—*See* BRITISH COLUMBIA.
——, Bulgaria.—Scott, H. K.
——, California.—Knopf, A., 3 & 4.
——, Canada.—Cartwright, C. T.; *see also* CANADA, Dept. of Mines.
——, Idaho.—Umpleby, J. B., 2.

Lead, Missouri.—Lee, Wallace; Wright, C. A.
——, end-product of thorium and.—Holmes, A., 2.
Leadville (Colorado).—Ford, W. E., 1 & 5.
Lebach (Rhenish Prussia).—Reis, O. M., 3.
Lebephyllum.—Wilson, W. J.
Lecänites.—Smith, J. P.
Lecce (Apulia).—Bassani, F.; Erasmo, G. d'.
Leda.—Dickerson, R. E., 2; Holdhaus, K.; Lotz, H.
Leda R. (Germany).—Schucht, F.
Leeds (Yorks.).—Burnet, A.; Hawkesworth, E.
Leeuwpoort (Transvaal).—McDonald, D. P., 4.
Leez Priory (Essex).—Anon., 51.
Leguminosites.—Berry, E. W., 5.
Leicestershire.—Meachem, F. G.; Vernon, R. D.
LEIDY, J., *Biogr.*—*See* Osborn, H. F., 2.
Leighton Buzzard (Beds.).—Davies, G. M.
Leiocidaris.—Fourtau, R.
Leiostegium.—Raymond, P. E., 5.
Leith Hill (Surrey).—Davies, G. M.
Leithakalk, Styria.—Hilber, V., 2.
Leitmeritz (Bohemia).—Hibsch, J. E., 3.
Lemmus.—Ehik, J.
Lemoinella.—Morellet, L.
Lenox (N.Y.).—Smith, Burnett.
Lenzkirch (Baden).—Bubnoff, S. von, 2.
Lepetopsis.—Mansuy, H., 2.
Lepini, Mt. (Latium).—Moderni, P.
Lepidocarpon.—Kidston, R.
Lepidocyclina.—Checchia-Rispoli, G.; Rutten, L., 1 & 2; Smith, W. D.
Lepidodendron.—Arber, E. A. N., 4; Chapman, F., 5; Goldschmidt, V. M.; Kidston, R.; Nathorst, A. G., 4.
Lepidophloios.—Arber, E. A. N., 4; Nathorst, A. G., 4.
Lepidophyllum.—Nathorst, A. G., 4.
Lepidostrobus.—Arber, A.; Nathorst, A. G., 4; Wilson, W. J., 2.
Lepidotus.—Mann, O.
Leptæna.—Asselbergs, E.; Clarke, J. M.
Leptocœlia.—Douglas, J. A.
Leptodomus.—Fuchs, A.
Leptospermocarpum.—Menzel, P.
Leptynite, garnetiferous.—Lacroix, A., 10.
Lepus.—Freudenberg, W.
Lérida (Spain).—Dalloni, M.; Woodward, A. S., 2.
Lessines (Hainault).—Wen-Hao, W.
Leucite.—Zambonini, F.
Leucite-rocks, Java.—Brouwer, H. A., 2.
Leucophonolite.—Galdieri, A.
Leurospondylus.—Brown, B., 3.
Leutschach (Styria).—Jæger, R.
Lévis (Quebec).—Raymond, P. E., 6.
Lewis County (Washington).—Collier, A. J.
Lewis I. (Hebrides).—Stevens, A.
Lewisian Gneiss, Ross-shire.—Peach, B. N., 2.
Lexington Limestone, Kentucky.—Foerste, A. F.
Lias, Alsace.—Schirardin, J.
——, Asia Minor.—Vadasz, M. E.
——, Aveyron.—Monestier, J.
——, Bornholm I.—Malling, C.
——, Brunswick.—Schmidt, E. W.
——, Dorset.—Lang, W. D., 3.
——, Gloucestershire.—Richardson, L., 4.
——, Halberstadt.—Brandes, T.
——, Hanover.—Grupe, O.
——, Indo-China & Yunnan.—Deprat, J., 5.
——, Lorraine.—Nicklès, R.
——, Nièvre.—Dareste de la Chavanne, J.
——, Oxfordshire.—Walford, E. A.
——, Portugal.—Meister, E.
——, Shropshire.—Walker, W. T., 2.
——, Sicily.—Fucini, A.
——, Somerset.—Evans, J. W., 4.
——, South America.—Jaworski, E., 2.
——, Tarentaise.—Pussenot, C.
——, Vaud.—Jeannet, A.
——, Warwickshire.—Walford, E. A.
Liau-Tung (China).—Oyu, M.
Libby (Montana).—Larsen, E. S., 3.
Libya.—Artini, E.; Migliorini, C. I.
Libyan Desert.—Beadnell, H. J. L.
Lichas.—Reed, F. R. C., 4.
Lichenocrinus.—Foerste, A. F.
Lichenopora.—Canu, F.
Licq-Atherey (Basses-Pyrénées).—Bertrand, L., 2; Fournier, E., 2.
Liége (Belgium).—Renier, A.
Liévin (Pas-de-Calais).—Simon, A.
Lignite, Bulgaria.—Scott, H. K.
——, Dakota.—Calvert, W. R.; Herald, F. A.
——, Idaho.—Bowen, C. F., 2.
——, South Australia.—Ward, L. K., 8.
——, Texas.—Phillips, W. B., 2.
Liguria (Italy).—Riva, P.; Rovereto, G.
Lilleshall Hill (Shropshire).—Raw, F.
Lillite.—Kræmer, R.
Lillooet (B.C.).—Bateman, A. M., 1 & 2.
Lilydale (Victoria).—Morris, M.
Lima.—Dareste de la Chavanne, J.; Diener, C.; Dickerson, R. E., 2; Holdhaus, K.; Jeannet, A.; Jukovski, E.; Mansuy, H.
Limatulina.—Hind, W., 2.
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Limestone, Australian Federal Territory.—Mahony, D. J., 2.
——, Basses-Alpes.—Fritel, P. H.
——, Belgium.—Andrimont, R. d'; Delhaye, F.; Salée, A., 2.

Limestone, Brandenburg.—Korn, J., 3.
——, California.—Bryant, H. C.
——, Campania.—Galdieri, A., 2.
——, Dinant Basin.—Delhaye, F., 2.
——, Dumbartonshire. — Gwinnell, R. F.
——, Durham Magnesian.—Prest, J. J.; Trechmann, C. T., 2.
——, Germany.—Pæckelmann, W.
——, Glasgow district.—Macnair, P.
——, Gothland.—Munthe, H.
——, Kalahari Desert.—Rimann, E., 3.
——, Malay States.—Scrivenor, J. B., 3 & 5.
——, New South Wales.—Chapman, F., 3.
——, Normandy.—Bigot, A., 9.
—— (pisolitic), Paris Basin.—Dollfus, G. F., 2; Lemoine, P.
——, Philippine Is.—Cox, A. J., 2.
——, Queensland.—Newman, J. M., 2.
——, Rhenish Prussia.—Quiring, H.
——, Shropshire.—Crosfield, M. C.
——, Siberia.—Weigel, O.
——, Sicily.—Gregorio, A. de, 5.
——, Tarentaise.—Pussenot, C.
——, Tauern.—Sander, B.
——, Utah.—Butler, B. S., 2.
——, Victoria.—Chapman, F., 9 & 10; Dunn, E. J., 5.
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Linlithgow (Scotland).—Flett, J. S., 2.
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Lioplax.—Jukovski, E.
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Lippe (Germany).—Renner, O.
Lisburne, Cape (Alaska).—Knowlton, F. H., 3.
Lissoceras.—Douvillé, R., 3.
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Lithidionite.—Zambonini, F.
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Lithophagus.—Diener, C.
Lithothamnium.—Smith, W. D.
Little Colorado Valley (Arizona). — Gregory, H. E., 3.
Little Lake (Michigan).—Allen, R. C., 3.
Little Nottaway R. (Quebec).—Cooke, H. C.
Little Sheep Mountain (Montana).—Rogers, G. S.
Liverpool (Lancashire).—Jones, T. A.; Travis, C. B., 2.
Liverpool (Nova Scotia).—Faribault, E. R.
Livonia.—Doss, B., 2.
Livornese Mts. (Tuscany). — Achiardi, G. d'.
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——, Missouri.—Dake, C. L.
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London Basin, geology of.—Davies, G. M.
London Mine (Colorado).—Moore, C. J.
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Lyons (Rhône).—Riaz, A. de.
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Lytton (B.C.).—Bowen, N. L., 2.
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Madrepora.—Smith, W. D.
Mägdeberg (Baden).—Schnarrenberger, K., 7.
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——, Miocene.—Smith, W. D.
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——, Pleistocene.—Campana, D. del, 3; Chandler, A. C.; Eaton, G. F.; Ehik, J.; Gidley, J. W.; Glauert, L.; Hay, O. P., 1 & 2; Kukuk, P., 3; Schuchert, C., 3; Shufeldt, R. W.; Stock, C.
——, Pliocene. — Campana, D. del; Depéret, C.; Hinton, M. A. C.; Schlesinger, G., 1 & 2; Stromer, E.; Zuffardi, P.
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——, Tertiary.—Anderson, W.; Carlsson, A.; Drevermann, F.; Lull, R. S.; Merriam, J. C., 1–3; Palmer, R. W.; Pilgrim, G. E.; Rovereto, G., 4; Scott, H. H.; Stirling, E. C., 2.
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Minorca (Balearic Is.).—Bate, D. M. A., 1 & 2.
Mintaro (S. Austr.).—Ward, L. K., 5.
Miocene, Borneo.—Martin, K.
——, British East Africa.—Oswald, F.
——, Colorado.—Wickham, H. F.
——, Florida.—Matson, G. C.
——, Lérida.—Woodward, A. S., 2.
——, Sardinia.—Lovisato, D., 2.
——, Silesia.—Michael, R., 2.
——, Styria.—Heritsch, F., 2; Hilber, V., 1 & 2; Jæger, R.; Winkler, A., 1 & 2.
——, Washington.—Weaver, C. E.
——, Wyoming.—Sternberg, C. H.
Miocidaris.—Dareste de la Chavanne, J.
Miogypsina.—Rutten, L., 2.
Misdroy (Pomerania).—Keilhack, K.
Misól (D.E.I.).—Seidlitz, W. von.
Misólia.—Seidlitz, W. von.
Mississippi (U.S.A.).—Stephenson, L. W., 2 & 3.
—— River Basin (U.S.A.) surface-water.—Follansbee, R.
—— delta (U.S.A.).—Shaw, E. W., 1 & 2.
—— Valley (U.S.A.).—Keyes, C. R., 7.
Mississippian, Oklahoma.—Snider, L. C.
——, Utah.—Hintze, F. F., *fil.*; Peterson, W.
Missoula, Lake (Montana).—Stone, R. W.
Missouri (U.S.A.).—Dake, C. L.; Keyes, C. R., 5; Lee, Wallace; Savage, T. E.; Wright, C. A.; *see also* MISSOURI, Bureau of Geology & Mines.
Missouri R. (U.S.A.).—Todd, J. E.
Mitaté Mine (Japan).—Kato, T., 3.
Mitcheldeania.—Garwood, E. J., 1 & 2.
MITCHELL, F. J., *Obit.*—*See* Strahan, A., 2.
Mithridate, Mt. (Crimea).—Gorodtzov, B. A., 2.
Mitraster.—Spencer, W. K.
Mittagia seminiformis.—Lignier, O., 8.
Mittelgebirge (Bohemia).—Hibsch, J. E., 2 & 3
Mittelland Canal (Germany).—Harbort, E., 2.
Moa.—Hill, H.
Modderfontein (Cape Province).—Young, R. B.
Moderhalde (Basel).—Leuthardt, F.
Modiola.—Diener, C.; Stefani, C. de.
Modiolaria.—Bucher, W.
Modiolopsis.—Douvillé, H.; Foerste, A. F.; Licharev, B.
Modiolus.—Dickerson, R. E., 2; Martin, B.; Smith, W. D.
Modiomorpha.—Fuchs, A.; Mansuy, H., 3; Smith, J. P.
Möens Klint (Denmark).—Hintze, V.
Mœritherium.—Pilgrim, G. E.
Moghara (Egypt).—Douvillé, H., 4.
Mohave Desert (California).—Buwalda, J. P.; Merriam, J. C., 3.
Mohave County (Arizona).—Hill, J. M., 3.
Moine Series, Ross-shire.—Peach, B. N., 2.
Mokattam Limestone, Egypt.—Andrée, K., 1 & 3.
Molasse, Armagnac.—Dollfus, G. F., 8.
——, Baden.—Deecke, W., 2.
——, Bavaria.—Weithofer, K. A.
——, Lake - Constance district.—Schmidle, W.
Mollia.—Brydone, R. M.
Molybdenite, Queensland.—Saint-Smith, E. C., 5 & 6.
Molybdenite, Tyrol.—Kittl, E.
Molybdenum, occurrence in rocks.—Ferguson, J. B.
Molybdenum, Canada.—Cartwright, C. T.
Momisia.—Berry, E. W., 5.
Monaghan (Ireland).—Hallissy, T.
Monazite.—Anon., 47; Pratt, J. H.; Simpson, E. S., 2.
Monchiquite.—Kozu, S.; Watson, T. L., 2.
Monks Mound (Illinois).—Bushnell, D. I.; Crook, A. R.
Monograptus.—Elles, G. L., 3.
Monophyllites.—Smith, J. P.; Tommasi, A.
Mont Blanc, morphology of.—Lucerna, R.
Montana (U.S.A.).—Alden, W. C., 1 & 2; Bauer, C. M.; Brown, B., 4; Calkins, F. C.; Davis, W. M.; Gilmore, C. W.; Knopf, A., 2; Larsen, E. S., 3; Lawson, A. C., 3; Pardee, J. T.; Powers, S.; Ray, J. C.; Richards, R. W.; Rogers, A. F., 2; Rogers, G. S., 1 & 2; Stebinger, E., 1 & 2; Sternberg, C. H., 2; Stone, R. W.; Winchell, A. N.
Montecchio Maggiore (Venetia).—Kranz, W.
Monteregian Hills (Quebec).—Adams, F. D., 2; O'Neill, J. J.
Monterey Series.—Clark, B. L.
Monteviale (Venetia).—Kranz, W.
Montifaux (Hainault).—Dubois, J.
Montlivaultia.—Dareste de la Chavanne, J.; Smith, W. D.
Montmans (Allier).—Friedel, G., 3.
Montmorillonite.—Lovisato, D.
Montpellier (Hérault).—Depéret, C.
Montreal (Quebec).—Goldthwait, J. W., 3; Raymond, P. E., 10.
Montsech (Catalonia).—Dalloni, M., 2; Jacob, C., 3.
Monzonite, Idaho.—Stewart, C. A.
——, Utah.—Butler, B. S., 2.
Moolyella (W. Australia).—Simpson, E. S., 2.
Moon, vulcanism of the.—Wolff, F. von.

Moora (W. Austr.).—Blatchford, T. A.
Moorea I. (Pacific).—Marshall, P., 2.
Moose Mt. (Ontario).—Krusch, P., 3; Lindeman, E.
Moraines, Kansas.—Wooster, L. C.
——, New Hampshire.—Foshay, P. M.
——, New York.—Fuller, F. L.
——, Ontario.—Taylor, F. B., 1 & 4.
——, Sweden.—Hägg, R., 2.
——, Switzerland.—Antenin, F.
——, Tyrol.—Ampferer, O.
Morar, Loch (Inverness).—Gregory, J. W., 11.
Moravia.—Hackl, O.; Oppenheim, P.; Rzehak, A.; Werne, —.
Morayshire.—Watson, D. M. S., 16.
Morcles, Dent de (Switzerland).—Lugeon, M., 1 & 2.
Moriconia.—Berry, E. W., 5.
Morin anorthosite, Quebec.—Graham, R. P. D.
Morinite.—Slavik, F., 3.
Mormosaurus.—Watson, D. M. S., 4.
Morocco.—Azéma, —, 2; Gautier, E. F.; Gentil, L., 1–3; Jaworski, E.; Poiree, E.
Morosaurus.—Huene, F. von, 9.
Morricetown (B.C.).—McConnell, R. G., 5.
Mortain (Manche).—Anthoine, R.
Moschin (Posen).—Korn, J., 4.
Moscow (Russia).—Nikolaevskii, F.
Mother-Lode Mine (British Columbia).—Le Roy, O. E.
'Mother-of-Coal.'—*See* Fusain.
Motherwell (Lanarkshire).—Dron, R. W.
Mouchard (Jura).—Fournier, E., 4.
Mount Edith (W. Australia).—Foote, W. M.
Mount Jackson (W. Australia).—Woodward, H. P., 10.
Mount Lyell (Tasmania).—Gilbert, C. J.
Mount Monger (W. Australia).—Blatchford, T. A., 2.
Mount Morgan (Queensland).—Newman, J. M.
Mount Painter (S. Australia).—Ward, L. K., 7.
Mount St. Elias (Alaska).—Maddren, A. G.
Mount William (Victoria).—Murray, R. A. F.
Mountain-building.—Andrée, K., 4; Hobbs, W. H.; Molengraaff, G. A. F.
Mountains, terminology & classification of.—Obst, E.
Mourlonia.—Mansuy, H., 2.
Mousterian, Vendée.—Baudouin, M., 2.
Mowbray Swamp (Tasmania).—Chapman, F., 6.
Mozambique.—Holmes, A.; Zwierzycki, J., 2.
Mucronata Chalk, Baltic regions.—Grœnwall, K. A.
—— Sandstone.—Linstow, O. von, 3.
Mud-lumps, Mississippi Delta.—Shaw, E. W.
Mud-volcanoes, Burma.—Pascoe, E. H.
Münchberg (Bavaria).—Suess, F. E.
Münster (Westphalia).—Bærtling, R.; Franke, A.
Müsen (Westphalia).—Henglein, M.
Mull, I. of.—Hallimond, A. F.
Mullan (Idaho).—Calkins, F. C.
Muong-Saï (Indo-China).—Tronquoy, R., 2.
Murchison Goldfield (W. Australia).—Woodward, H. P., 5, 6, 8, & 9.
Murchisonia.—Licharev, B.; Mansuy, H.
Murex.—Harmer, F. W.
Murnau (Bavaria).—Hahn, F. F., 4.
MURRAY, Sir JOHN, *Obit.*—*See* Anon., 24; Beddard, F. E.; Dickson, H. N.; Geikie, Sir Archibald; Hjort, J.; Horne, J., 3; Rykacev, M. A.
Muschelkalk, Baden.—Schnarrenberger, K.
Muschelkalk, Silesia.—Assmann, P.
Muscovite.—Kœrt, W.
Museums, New York State.—Clarke, J. M., 4.
——, arrangement of geological.—Andrée, K., 2.
'Mutations of WAAGEN.'—Osborn, H. F., 11.
MUTHMANN, F. W., *Obit.*—*See* Anon., 25.
Muthmannite.—Schaller, W. T.
Myalina.—Fuchs, A.
Mygophoria.—Jeannet, A.
Mylodon.—Eaton, G. F.
Mylonite, Forez Mts.—Glangeaud, P., 3.
Myohyrax.—Oswald, F.
Myophoria.—Diener, C.; Douvillé, H.; Krauss, H.; Mansuy, H., 1 & 3.
Myoxus.—Freudenberg, W.
Myrica.—Berry, E. W., 5.
Myriapoda, Carboniferous.—Peach, B. N.; Pruvost, P., 2.
Myripristis.—Bassani, F.
Myrsine.—Berry, E. W., 6.
Myrsinophyllum.—Menzel, P.
Myrtaceæ, development of.—Andrews, E. C.
Myrtillocrinus.—Schmidt, W. E,
Myrtleford (Victoria).—Dunn, E. J., 13.
Mysidioptera.—Diener, C.; Mansuy, H., 3; Tommasi, A.
Mysore.—Balaji Rao, B.; Iyengar, P. S.; Jayaram, B.; Raghavendra Rao, S.; Sen, A. M.; Slater, H. K.; Venkataramaiya, B. N.; Watson, H. E.; *see also* MYSORE, Geological Department.
Mytilarca.—Mansuy, H., 3.
Mytiliconcha.—Tommasi, A.
Mytilus.—Dareste de la Chavanne, J.; Etheridge, R., *fil.*; Jukovski, E.
Mzymta R. (Russia).—Karakas, N. I.

Naarajärvi (Finland).—Mäkinen, E.
Näsijärvi (Russia).—Bolkhovitinov, M. A.
Nafooey, Lough (Galway).—Gardiner, C. I.
Naga (Philippine Is.).—Pratt, W. E., 2.
Nagamangala (Mysore).—Raghavendra Rao, S.
Nagato Prov. (Japan).—Kato, T., 1 & 2.
Nagydisznod & Nagytalmacs (Hungary).—Halavats, G. von, 2.
Namaqualand (S.W. Africa).—Rogers, A. W.; Scully, G. C.
Namur (Belgium).—Bertiaux, A., 2; Devivier, P.; Lassine, A.; Malaise, C., 2.
Nancy (Meurthe).—Joly, H.
Nannine (W. Australia).—Woodward, H. P., 6.
Nannites.—Diener, C.; Smith, J. P.
Nans (Var.).—Haug, E.
Naphtha, Transcaucasia.—Riabinin, A.
——, Ural Mts.—Tikhonovich, N. N.
Naples (Italy).—Galdieri, A., 3; Piutti, A.
Narica.—Jukovski, E.
Narragansett Basin (U.S.A.).—Lahee, F. H., 3; Loughlin, G. F., 2.
Nassa.—Chapman, F., 13; Harmer, F. W.; Martin, B.; Smith, W. D.
Nassau.—*See* Hesse-Nassau.
Natal.—Du Toit, A. L.; Humphrey, W. A., 1 & 2.
Nathusia.—Menzel, P.
Natica.—Chapman, F., 13; Dickerson, R. E., 2; Jukovski, E.; Krauss, H.; Smith, W. D.; Stefani, C. de.
Naticopsis.—Mansuy, H., 2.
Natrolite.—Brincken, O. A.
Natrûn, Wadi (Egypt).—Stromer, E.
Nautilus.—Dickerson, R. E., 2; Lösch, K. C. von; Zwierzycki, J.
Navajo-Moki Reservation (U.S.A.).—Gregory, H. E., 5.
Navanagar (India).—Adye, E. H.
Nébida (Sardinia).—Novarese, V.
Nebraska (U.S.A.).—Barbour, E. H., 2 & 3; Hance, J. H., 2.
Necymylacris.—Pruvost, P., 6.
Nelson (N.Z.).—Morgan, P. G., 4; Thomson, J. A., 3.
Nelson County (Virginia).—Watson, T. L., 3.
Nelumbium.—Fritel, P. H.
Neocomian, Algeria.—Dalloni, M., 2.
Neocyanite.—Zambonini, F.
Neofusulinella.—Deprat, J.
Neogene water-levels, Vienna Basin.—Schaffer, F. X., 2.
Neomeris.—Morellet, L.
Neonematherium & *Neophanomys.*—Rovereto, G., 4.
Neoschwagerina.—Deprat, J.
Neosteiromys & *Neotamandua.*—Rovereto, G., 4.
Nepheline.—Zambonini, F.
—— -rocks, Libya.—Artini, E.
Nephrite.—Teppner, W.; Uhlig, J.
Nephrops.—Peach, B. N.
Nephtianaia (Kuban).—Gubkin, J.
Neptunea.—Harmer, F. W.
Nereites beds, Portugal.—Pruvost, P., 4.
Nerinea.—Jukovski, E.
Nerineopsis.—Cossmann, A. E. M.
Nerita.—Dickerson, R. E., 2; Jukovski, E.
Neunkirchen (Hesse).—Klemm, G.
Neuropteris.—Arber, E. A. N., 4 & 5; Kidston, R.; Wills, Lucy.
Neurospermum.—Arber, E. A. N., 3.
Neuryurus.—Rovereto, G., 4.
Neustadt (West Prussia).—Jentzsch, A., 4.
Nevada (U.S.A.).—Gale, H. S., 4 & 7; Hance, J. H., 1 & 2; Hill, J. M., 2; Jones, J. C.; Merriam, J. C., 2; Ransome, F. L., 2; Schrader, F. C., 1 & 3; Smith, J. P.; Snyder, J. O.
Nevadites.—Smith, J. P.
Névé, formation of.—Workman, W. H.
New Brunswick.—Ells, R. W., 1 & 2; Goldthwait, J. W., 4; Keele, J.; Lindeman, E., 2; *see also* CANADA, 3.
New England, coastal subsidence in.—Davis, C. A., 2.
New Forest (Hants.).—Morris, Sir Daniel.
Newfoundland.—Buddington, A. F.; Dale, N. C.; Hayes, A. O.; Van Ingen, G.
New Guinea.—Rutten, L., 2.
Newhall (California).—English, W. A.
New Hampshire (U.S.A.).—Foshay, P. M.; Goldthwait, J. W., 1 & 2; Merritt, J. W.
New Haven (Connecticut).—Davis, C. A.
New Hebrides.—Lacroix, A., 13.
New Jersey (U.S.A.).—Bayley, W. S.; Blair, A. W.; Fenner, C. N., 2–4; Hawkins, A. C.; Kümmel, H. B.; Palache, C., 3; Shimer, H. W.; Twitchell, W. M.
New Mexico (U.S.A.).—Brown, B., 4; Case, E. C.; Darton, N. H., 3–5; Hance, J. H., 2; Lee, W. T.; Rich, J. L.; Sinclair, W. J.; Winchester, D. E.
New Pomerania (Pacific).—Sapper, K.
New Ross (Nova Scotia).—Wright, W. J.
Newsham (Northumberland).—Watson, D. M. S.
New Siberian Is.—Frech, F., 3; Kayser, E., 2.
New South Wales.—Benson, W. N.; Carne, J. E.; Chapman, F., 3; Donaldson, R. J.; Halligan, G. H., 2; *see also* NEW SOUTH WALES.
New York (U.S.A.).—Berkey, C. P., 1 & 3; Brown, T. C.; Chadwick, G. H.; Clarke, J. M., 3; Crosby, W. O.; Cushing, H. P.; Fettke, C. R.; Fuller,

M. L.; Hopkins, T. C.; Huene, F. von; Kemp, J. F.; Kindle, E. M., 7; Miller, W. J., 1–4; Rich, J. L., 2; Ruedemann, R.; Smith, Burnett.
New York State Museum.—Clarke, J. M., 4.
New Zealand.—Bartrum, J. A., 1–3; Bell, J. M., 1 & 2; Cotton, C. A., 1–3; Fry, S.; Gudex, M. C.; Henderson, J.; Hogben, G.; Marshall, P., 1, 3, & 4; Morgan, P. G., 1–6; Montessus de Ballore, F. de, 3; Speight, R., 1 & 2; Thomson, J. A., 1–3; Watkins, A. E.; *see also* NEW ZEALAND, Geological Survey.
Ngotshe (Natal).—Humphrey, W. A., 2.
Niagara Gorge (N. America).—Kindle, E. M., 6; Taylor, F. B., 2 & 3.
Nice (Alpes Maritimes).—Maury, E.
Nickel, Canada. — Cartwright, C. T.; Howe, E., 2; Krusch, P., 3.
Nickel-bearing magnesite, Croatia. — Tućan, F., 3.
Nideggen (Rh. Prussia).—Quaas, A.
Niesen zone, Switzerland.—Lugeon, M., 3 & 4.
'Nieve penitente,' Himalayas. — Workman, W. H.
Nièvre (France).—Dareste de la Chavanne, J.
Nigeria.—Anon., 48; Stopes, M. C.
Nijni-Novgorod (Russia).—Masarovich, A., 2.
Nilssonia.—Yabe, H., 2.
Nimmersatt (East Prussia).—Hess von Wichdorff, H., 2.
'Niobium,' the term.—Clarke, F. W.
Nipadites.—Berry, E. W., 2.
Nisiro I. (Ægean).—Grill, E., 3.
Nitre, Montana.—Richards, R. W.
N'kandhla (Zululand).—Stanley, G. H.
Noatak (Alaska).—Smith, P. S.
Nodosaria.—Rothpletz, A.; Sherlock, R. L.
Nodules, Coal-Measure fossil-bearing.—Twenhofel, W. H.
Nördlingen (Bavaria).—Kranz, W., 2.
Nœggerathiopsis.—Mercenier, M.
Noenrådet (Sweden).—Wallén, A.
Nörenberg (Pomerania).—Philipp, H., 2.
Nogueras (Pyrenees).—Dalloni, M.
Nomenclature, colloid minerals.—Tućan, F.
——, Fusulinidæ.—Girty, G. H.
——, Indian geological.—Holland, Sir Thomas H., 5.
——, mineral.—Rogers, A. F.; Wherry, E. T., 2.
——, palæobotanical.—Nathorst, A. G.
——, palæontological.—Sauvage, H. E.; Springer, F.; Thomson, J. A.
——, Pariasauria.—Watson, D. M. S., 11.
——, Pre-Cambrian.—Sederholm, J. J., 3.
——, Tasmanian aboriginal rock-. — Nœtling, F., 3.
Nomenclature, the terms 'batholith' & 'laccolith.'—Lawson, A. C., 3.
——, the terms 'columbium' & 'niobium.'—Clarke, F. W.
——, the term 'eruptive.'—Lahee, F., 2.
——, the term 'Guttensteiner Kalk.'—Krauss, H., 2.
——, the term 'ore.'—Goodchild, W. H.
Nontronite.—Bergeat, A.
Nord (France). — Barrois, C., 1 & 2; Bertrand, P.; Brégi, L.; Broussier, F.; Carpentier, A., 1 & 2; Comment, V.; Douxami, H., 1 & 3; Dubois, G.; Gosselet, J.; Pagniez, —, 1–3; Pruvost, P., 1–3 & 6.
Nordland (Norway).—Vogt, T.
Nordmark (Sweden).—Hadding, A.
Norfolk.—Boswell, P. G. H., 2; Clarke, W. G., 2; Halls, H. H.; Haward, F. N.; Hinton, M. A. C.; Lowerison, B.; Warburton, J. S.
Norite.—Douglas, J. A.
Normandy (France). — Anthoine, R.; Bigot, A., 3 & 9; Lignier, O., 1–3 & 9; Nicou, P.
Northamptonshire.—Thompson, B.
North Creek (N.Y.).—Miller, W. J., 4.
North Sea drift, Suffolk.—Boswell, P. G. H., 2.
Northumberland.—Smythe, J. A.
Northumberland volcanic plug (N.Y.).—Cushing, H. P.
Norway.—Danielsen, D.; Goldschmidt, V. M., 1, 3, & 5; Högbom, A. G., 2; Kolderup, C. F.; Oxaal, J.; Reusch, H., 1 & 2; Sahlström, K. E., 2; Vogt, J. H. L., 1 & 2; Vogt, T.; Werenskiöld, W.
Norway, earthquakes in 1912. — Kolderup, C. F., 2.
Notharctus.—Gregory, W. K.
Notosuchus.—Huene, F. von, 6.
Notothyris.—Mansuy, H., 2.
Nottinghamshire.—Carr, J. W.; Lamplugh, G. W., 3; Swinnerton, H. H.
Nova Scotia.—Bell, W. A.; Ells, R. W.; Faribault, E. R., 1–3; Hyde, J. E.; Malcolm, W.; Ries, H., 3; Wilson, A. W. G., 2; Wright, W. J.; *see also* CANADA, 3.
Novgorod (Russia).—Licharev, B.
Novo-Senaki (Russia). — Schvezov, M. S.
Nubian Sandstone, age of.—Day, A. E.
Nürschan (Bohemia).—Angel, F.
Nucleospira.—Liebrecht, F.; Mansuy, H.
Nucula.—Dollfus, G. F., 9; Holdhaus, K.; Mansuy, H., 3; Stefani, C. de.
Nuculana.—Dollfus, G. F., 9.
Numidia.—Joleaud, L., 6.
Nummulites. — Checchia - Rispoli, G.; Cotter, G. de P.; Rutten, L., 2.
Nummulitic limestone, Styria.—Jæger, R.
—— -rocks, Rhodes I.—Pieragnoli, L.

Nummulosphere.—Kirkpatrick, R.
Nundle (N.S.W.).—Benson, W. N.
Nuneaton (Warwickshire).—Illing, V. C., 1 & 2.
Nurra di Sassari (Sardinia).—Termier, P.
Nyasaland.—Anon., 45.
Nyassa.—Menzel, P.
Nyctosaurus.—Huene, F. von, 7.

Oamaru (N.Z.).—Marshall, P., 4.
Obsidian, Victoria.—Dunn, E. J., 15.
Oceanides.—Suess, E.
Oceanography.—Launay, L. de, 2.
Oceans & continents, formation of.—Belot, E.
Ocenebra.—Harmer, F. W.
Ochetochilus.—Cossmann, A. E. M.
Ochotona.—Ehik, J.
Ochre, Madagascar.—Duparc, L., 6.
Ocotea.—Menzel, P.
Odinite.—Souza-Brandão, V., 2.
Odonata.—Tillyard, R. J.
Odontaspis.—Lotz, H.
Odontocyathus.—Smith, W. D.
Odontopteris.—Arber, E. A. N., 5.
Odostomia.—Gregorio, A. de.
Œdenburg (Hungary). — Winkler, A., 4.
Œkörmező (Hungary).—Posewitz, T., 2.
Oeta (Greece).—Renz, C., 4.
Œtztal Alps (Austria).—Deeley, R. M., 3; Klebelsberg, R. von, 4.
Offaster-pilula Zone, South English Chalk.—Brydone, R. M., 2.
Ofuku Mine (Japan).—Kato, T., 2.
Ogunquit (Maine).—Keeley, F. J.
Ogygites.—Raymond, P. E., 3.
Ohio (U.S.A.). — Burroughs, W. G.; Coffey, G. N.; Hubbard, G. D., 1–3; Leverett, F., 5.
Ohio R. Basin (U.S.A.), surface-water.—Horton, A. H., 1 & 2.
Ohio Shale, Ontario.—Kindle, E. M., 2.
Ohiocrinus.—Foerste, A. F.
Oil.—*See* Petroleum.
Oil-shale, Canada.—Ells, R. W., 1 & 2; *see also* CANADA, 3.
—— ——, Colorado & Utah.—Woodruff, E. G., 2.
—— ——, Queensland.—Ball, L. C.
—— ——, Scotland.—Carruthers, R. G.; Ells, R. W.
Oil-shale, organic matter in.—Robertson, J. B.
Oise (France).—Ramond, G.
Ojo Alamo Beds, New Mexico.—Brown, B., 4.
Okenite.—Eakle, A. S.
Oklahoma (U.S.A.).—Gould, C. N., 1 & 2; Munn, M. J., 2; Reeds, C. A.; Schwennesen, A. T., 1 & 2; Snider, L. C.; Wood, R. H.
Oldenburg (Germany).—Schucht, F.
Oldham (Nova Scotia).—Faribault, E. R., 2.
Oldman R. (Alberta).—MacKenzie, J. D.
Old Red Sandstone, Ayrshire.—Tyrrell, G. W.
—— —— ——, Caithness.—Crampton, C. B.
—— —— ——, Edinburgh.—Flett, J. S., 2.
—— —— ——, Fife. — *See* BRITISH ASSOCIATION COMMITTEE, 3.
—— —— ——, Kilkenny.—*See* BRITISH ASSOCIATION COMMITTEE, 5.
—— —— ——, Spitsbergen.—Holtedahl, O., 2.
Oleæcarpum.—Menzel, P.
Oléron I. (Charente - Inférieure). — Welsch, J.
Oligocene, Allier.—Dareste de la Chavanne, J., 2.
——, Anhalt.—Linstow, O. von, 2.
——, Antigua.—Brown, A. P., 2.
——, Bohemia.—Hibsch, J. E.
——, Denmark.—Ravn, J. P. J.
——, Florida.—Matson, G. C.; Vaughan, T. W., 4.
——, Liguria.—Rovereto, G.
——, Rhenish Prussia. — Hess, W.; Pohlig, H., 3.
——, Saxony.—Linstow, O. von, 2.
——, Tunis.—Oppenheim, P., 2.
Olivella.—Dickerson, R. E., 2.
Olot (Gerona).—Brun., A., 3.
Olympic Peninsula (Washington). — Lupton, C. T.
Omoto (Japan).—Yabe, H., 2.
Omphalocyclus.—Stefani, C. de.
Omphaloptycha.—Tommasi, A.
Onano (Latium).—Meli, R.
Onaping (Ontario).—Collins, W. H.
One-Tree Point (Tasmania).—Nœtling, F., 7.
Onoclea.—Berry, E. W., 5.
Ontario (Canada). — Barlow, A. E.; Bruce, E. L.; Collins, W. H.; Goldthwait, J. W., 3; Graham, R. P. D., 2; Howe, E., 2; Johnston, W. A.; Kindle, E. M., 2 & 5; Knight, C. W.; Krusch, P., 3; Lawson, A. C.; Leverett, F., 6; Lindeman, E., 1, 3, & 4; Means, A. H.; Raymond, P. E., 9 & 10; Schmid, H. S. de; Schuchert, C., 6; Spencer, J. W., 2; Stansfield, J., 2; Stauffer, C. R.; Taylor, F. B., 1 & 4; Tyrrell, J. B.; Uglow, W. L.; Walker, T. L.; Williams, M. Y., 1–3; Wolff, W., 2; Wright, G. F.
Onychaster.—Schöndorf, F., 2; Sollas, I. B. J.
Onychiopsis.—Yabe, H., 2.
Oolite, Bahamas & Florida.—Vaughan, T. W.
——, Oklahoma.—Reeds, C. A.
——. *See also* Inferior Oolite, Jurassic, *&c.*
Oolitic baryte, Texas.—Moore, E. S.
—— iron-ores, France.—Cayeux, L., 5.
Oonia.—Jukovski, E.

Ootheca.—Nathorst, A. G., 4.
Opal.—Lacroix, A., 9.
Opercule.—Jukovski, E.
Operculina. — Checchia - Rispoli, G.; Rutten, L., 2; Smith, W. D.
Ophiacodon.—Williston, S. W., 2.
Ophiarachna.—Spencer, W. K., 2.
Ophiceras.—Diener, C.
Ophioderma.—Schöndorf, F., 3.
Ophiurida, Carboniferous.—Schöndorf, F., 2; Schuchert, C.; Sollas, I. B. J.
——, Palæozoic.—Spencer, W. K., 2.
——, Triassic.—Schöndorf, F., 3.
Ophryaster.—Spencer, W. K.
Oplonæschna.—Cockerell, T. D. A., 2.
Oppelia.—Douvillé, R., 3.
Oppeliidæ, classification of.—Douvillé, R., 2 & 3.
Oppmana district (Scania).—Sandegren, R.
Ora Banda (W. Austr.).—Jutson, J. T.
Oran (Argentina).—Carles, E. de.
Orange Free State. — Penny, F. W.; Rudge, W. A. D.; Shand, S. J., 4.
Orbiculoidea.—Clarke, J. M.
Orbitoides.—Cotter, G. de P.
Orbitolites.—Smith, W. D.
Ordovician, Esthonia.—Born, A.
——, Galway.—Gardiner, C. I.
——, Iowa.—Slocum, A. W.
——, Loire-Inférieure.—Kerforne, F., 4.
——, Newfoundland.—Van Ingen, G.
——, New York —Cushing, H. P.
——, Ontario.—Raymond, P. E., 10.
——, Ottawa.—Kindle, E. M., 5.
——, Pembrokeshire.—Elles, G. L.
——, Quebec.—Raymond, P. E., 6 & 10.
——, Shan States.—La Touche, T. H. D.
——, Yunnan.—Brown, J. C., 2.
—— igneous rocks.—Cox, A. H.
——, shelly & graptolitic faunas of.—Elles, G. L., 2.
Ordovician-Silurian boundary.—Ulrich, E. O., 2.
'Ore,' the term.—Goodchild, W. H.
Ore-bearing currents, mine-water composition and.—Lane, A. C., 4.
Ore-bearing rocks, Sweden. — Sjögren, H., 2.
Ore-deposits, Altaï.—Mayer, G.
—— ——, Arizona.—Douglas, James.
—— ——, British Columbia.—Le Roy, O. E.; Malloch, G. S., 2.
—— ——, Colorado.—Moore, C. J.
—— ——, Idaho.—Umpleby, J. B.
—— ——, Japan.—Kato, T., 2.
—— ——, Lake - Superior region. — Machatschek, F., 2.
—— ——, Montana.—Ray, J. C.
—— ——, New South Wales.—Donaldson, R. J.
—— ——, Nova Scotia.—Malcolm, W.
—— ——, Philippine Is.—Fanning, P. R.
—— ——, Portugal.—Bello, A. d'O.
—— ——, Russia.—Stickney, A. W.
—— ——, Siberia.—Weigel, O.
Ore-deposits, Silesia.—Berg, G.; Sachs, A., 1 & 2.
—— ——, Utah.—Butler, B. S., 2; Van Horn, F. R., 2.
—— ——, Washington.—Bancroft, H.
—— ——, Western Australia. — Feldtmann, F. R.
—— ——, Wyoming.—Hewett, D. F.
—— ——, classification of.—Crook, T; Hatch, F. H., 1 & 2.
—— ——, depth and.—Kemp, J. F., 2.
—— ——, electric activity in. — Wells, R. C.
—— ——, genesis of. — Earle, R. B.; Hatch, F. H., 3; Lawson, A. C., 3; Knopf, A., 2; Mennell, F. P.
—— ——, mineral composition of primary.—Emmons, W. H.
—— ——, origin of contact-metamorphic.—Lindgren, W.
—— ——, origin of primary & secondary.—Krusch, P.
—— ——, formation of oxidized.—Fermor, L. L.
—— ——, persistence in depth.—Maclaren, M.
—— ——, superficial diffusion in.—Penrose, R. A. F., *fil.*
—— ——, types of.—Kendall, J. D.
—— ——. *See also* Secondary enrichment.
Ore - deposition by meteoric waters.—Lawson, A. C., 4.
Oregon (U.S.A.).—Arnold, R., 2; Diller, J. S., 2; Margerie, E. de; Shufeldt, R. W.
Orenburg (Russia). — Kracheninnikov, H. M., 1 & 2.
Orindan Formation, California. — Merriam, J. C., 4.
Oriskany Beds, Maine.—Pirsson, L. V., 3.
—— Sandstone, Ontario. — Kindle, E. M., 2.
Ornamental stones, Quebec.—Parks, W. A.
Orne (Normandy).—Bigot, A., 5 & 9; Lignier, O., 5.
Orne R. (France).—Bigot, A., 2.
Ornithischia.—Huene, F. von, 5 & 10.
Ornithocheirus.—Hooley, R. W.
Ornithostoma.—Bogholubov, N. N.
Ornithosuchus.—Huene, F. von. 6.
Orthis.—Asselbergs, E.; Fuchs, A.; Liebrecht, F.; Mansuy, H., 1 & 3; Pæckelmann, W.; Pruvost, P., 4; Quiring, H., 2.
Orthite.—Zambonini, F.
Orthoceras.—Foerste, A. F.; Liebrecht, F.; Mansuy, H.; Smith, J. P.
Orthocrinus.—Schmidt, W. E.
Orthodesma.—Foerste, A. F.
Orthomylacris.—Pruvost, P., 6.
Orthonema.—Mansuy, H., 2.
Orthonota.—Mansuy, H., 3.
Orthophragmina. — Checchia - Rispoli, G.; Rutten, L., 2.

Orthopsis.—Fourtau, R.
Orthothetes.—Pruvost, P., 5.
Orthotichia.—Kozlovski, R.
Ortonella.—Garwood, E. J.
Osar.—*See* Åsar.
Osborn, H. F., *Biogr.*—*See* Anon., 26.
Osceolia.—Walcott, C. D.
Oschersleben (Saxony).—Schmierer, T., 2.
Osmiridium, Tasmania. — Twelvetrees, W. H., 2.
Osmond, F., *Obit.*—*See* Sauveur, A.
Osmylidia.—Cockerell, T. D. A.
Ossola (Piedmont).—Bianchi, A., 1 & 2; Craveri, M.
Ostracoda, Devonian.—Chapman, F., 3; Pæckelmann, W.
——, Pleistocene.—Chapman, F., 6.
Ostrau (Moravia).—Werne, —.
Ostrea.—Boghachev, V.; Dickerson, R. E., 2; Dylevski, A.; Etheridge, R., *fil.*; Holdhaus, K.; Lotz, H.; Oppenheim, P.; Pocock, R. W.; Smith, W. D.; Stefani, C. de.
Ostreidæ, Eocene.—Pocock, R. W.
——, shell of.—Reis, O. M.
Otago Harbour (N.Z.).—Marshall, P.
Otavi (German S.W. Africa).—Henglein, M., 2.
Otocač (Croatia).—Poljak, J.
Otolithus.—Priem, F.
Otozamites.—Knowlton, F. H., 3; Lignier, O., 9; Wieland, G. R.
Ottawa (Canada).—Goldthwait, J. W., 3; Kindle, E. M.; Raymond, P. E., 10; Stansfield, J., 2.
Ottawacrinus.—Bather, F. A.
Ottrelite.—Lahee, F. H., 3.
Oued-Zousfana (Algeria).—Dollé, L.
Oulmès Plateau (Morocco).—Gentil, L., 2.
Oust-Medveditzkaia (Don Province).—Semikhatov, A. N.
Ovactæonina.—Dareste de la Chavanne, J.
Ovens R. Valley (Victoria).—Dunn, E. J., 14.
Overthrusts, Central Asia.—Leuchs, K., 3.
——, Bavaria.—Lebling, C.
——, Dutch East Indies.—Molengraaff, G. A. F.
——, Passwangkette.—Muehlberg, F.
——, Tongking.—Deprat, J., 4.
Overtonia.—Thomas, I.
Ovibos.—Kukuk, P., 3.
Ovis.—Freudenberg, W.
Ovula.—Dickerson, R. E., 2.
Oxford.—Davies, G. M.
Oxfordian, gap between Sequanian and.—Ivanov, A. P.
Oxfordshire.—Davies, G. M.; Peake, A. E.; Walford, E. A., 1 & 3.
Oxhey (Herts).—Kidner, H.
Oxidized zinc-ores, Utah.—Loughlin, G. F.
Oxoplecia.—Wilson, A. E.
Oxshott (Surrey).—Davies, G. M.
Oxted (Surrey).—Davies, G. M.
Oxyclymenia.—Renz, C.
Oxynoticeras.—Vadasz, M. E.
Oxyrhina.—Lotz, H.

Pachyacanthus.—Boghachev, V., 2.
Pachymytilus.—Jukovski, E.
Pachynasua & *Pachyrucos.*—Rovereto, G., 4.
Pachypora.—Chapman, F., 8.
Pachyseris.—Smith, W. D.
Pachystima.—Berry, E. W., 5.
Pachytheca.—Canu, F., 3.
Pagiophyllum.—Knowlton, F. H., 3.
Palæaster eucharis.—Schöndorf, F.
Palæhoplophorus.—Rovereto, G., 4.
Palæobotanical Institute, Kew. — Nathorst, A. G., 5.
Palæobotany.—Stopes, M. C., 3.
Palæocardita.—Douvillé, H.
Palæocaris.—Peach, B. N.
Palæocavia & *Palæoctodon.*—Rovereto, G., 4.
Palæochœrus.—Pilgrim, G. E.
Palæochrysa.—Cockerell, T. D. A.
Palæofusulina.—Deprat, J.
Palæogeography, geological periods and.—Schuchert, C., 7.
Palæolima.—Hind, W., 2; Pruvost, P., 5.
Palæolithic Age, Egypt.—Petrie, W. M. F.
—— ——, determination of. — Steinmann, J. H. C. G. G.
—— deposits, Kent.—Dewey, H., 2.
—— engraving.—Woodward, A. S.
—— 'guillotine'-stones.—Smith, F.
Palæoliths.—Péringuey, L.
——, Kansas.—Winchell, N. H.
——. *See also* Implements.
Palæomyrmidon.—Rovereto, G., 4.
Palæoniso.—Cossmann, A. E. M.
Palæoniscidæ, Carboniferous.—Traquair, R. H., 2.
Palæontology, geology and. — Branca, W.
——, text-book of.—Chapman, F., 2.
——. *See also* International Catalogue of Scientific Literature, 2 & 3.
Palæoryctes.—Matthew, W. D.
Palæosphærotherium.—Peach, B. N.
Palæostachya.—Kidston, R.
Palæoxyris.—Moysey, L.
Palæozoic, Bohemia.—Liebus, A.
——, British Columbia.—Le Roy, O. E.
——, Elba.—Stefani, C. de, 5.
——, Hungary.—Rozlozsnik, P.
——, Indo-China.—Deprat, J., 2 & 5.
——, New York.—Miller, W. J.
——, Quebec.—O'Neill, J. J.
——, Spitsbergen.—Nathorst, A. G., 4.
——, Styria.—Heritsch, F., 2.
——, Tongking.—Deprat, J., 9.
——, Yunnan.—Deprat, J., 5.
——, folding in.—Barrow, G., 2.

Palæozoic fossils, Arctic regions.—Schuchert, C., 5.
—— glaciation, Massachusetts.—Lahee, F. H.
—— iron-ore deposits, genesis of.—Earle, R. B.
—— orogenic movements.—Chamberlin, T. C., 2.
—— plants, resins in.—White, D., 3.
—— systems, revision of.—Ulrich, E. O.
—— shelf-seas, diastrophism, time-divisions and.—Chamberlin, T. C.
——. *See also* Silurian, *&c.*
Palencia (Spain).—Lozano, R. S.
Paleocene fauna & Cretaceous-Tertiary boundary, North America.—Matthew, W. D., 2.
Paleohatteria.—Williston, S. W., 3.
Paleonilo.—Douvillé, H.
Palermo (Sicily).—Gregorio, A. de, 5.
Palethnology.—Underwood, W.
Palffy Cave (Hungary).—Ehik, J.
Palicites.—Mansuy, H.
Palisades (New York).—Huene, F. von.
Paliurus.—Berry, E. W., 5; Kristofović, A.
Palladium, Canada.—Cartwright, C. T.
Palmnicken (E. Prussia).—Brückmann, R.
Paludina.—Krause, P. G.
Pampa Formation, Uruguay.—Walther, K.
Pampas (Argentina).—Gerth, H.; Rovereto, G., 3.
Panama (C. Am.).—Sieberg, A., 3.
Panama Canal.—Berry, E. W., 6; McDonald, D. F.
—— ——, earthquakes and.—Davison, C.
Panenka.—Fuchs, A.
Pannonian, Hungary.—Treitz, P.
Panopea.—Douvillé, H.
PANTANELLI, D., *Obit.*—*See* Arcangeli, G.; Stefani, C. de, 2.
Pantelleria I.—Washington, H. S., 4.
Pantylus.—Broom, R., 7.
Paphia.—Dickerson, R. E., 2.
Papiol (Catalonia).—Pruvost, P., 5.
Papposaurus.—Watson, D. M. S., 13.
Paracerithium.—Cossmann, A. E. M.
Paracyathus.—Dickerson, R. E., 2.
Paradidelphys.—Rovereto, G., 4.
Paradoxides.—Raymond, P. E., 7.
Paradoxidian fauna of Stockingford Shales.—Illing, V. C.
Paragenesis, mineral.—Ray, J. C.; Ziegler, V.
Paraguana (Venezuela).—Bendrat, T. A.
Parahipparion.—Eaton, G. F.
Parahippus.—Merriam, J. C., 2.
Parahyænodon.—Rovereto, G., 4.
Parallelodon.—Douvillé, H.
Paranannites.—Smith, J. P.
Paranautilus.—Diener, C.; Smith, J. P.
Paraphiomys.—Oswald, F.
Paraprolecanites.—Dollé, L.
Parasipho.—Harmer, F. W.
Paraspiniphra.—Cockerell, T. D. A., 2.
Pærastrophia hemiplicata.—Wilson, A. E., 2.
Paratapirus.—Dareste de la Chavanne, J., 2.
Paratrochus.—Tommasi, A.
Parechioceras.—Buckman, S. S.
Pariasaurus.—Watson, D. M. S., 2.
Pariasauria, nomenclature of.—Watson, D. M. S., 11.
Parijs (Orange Free State).—Shand, S. J., 4.
Paris Basin (France).—Bergeron, J.; Combes, P.; Dollfus, G. F., 2, 5–7; Lacroix, A., 10; Lemoine, P., 1 & 4; Morellet, L.
Park City (Utah).—Van Horn, F. R., 2.
Park County (Colorado).—Moore, C. J.
Park County (Wyoming).—Hewett, D. F., 2.
Parlin Stream (Maine).—Pirsson, L. V., 3.
PARSONS, H. F., *Obit.*—*See* Strahan, A., 2.
Pascoite.—Hillebrand, W. F.
Pas-de-Calais (France).—Dubois, G.; Gosselet, J., 1 & 2; Meunier, S.; Montagne, P.; Pruvost, P., 1 & 6; Simon, A.
Passaic County (New Jersey).—Fenner, C. N., 3 & 4.
Passwang Mts. (Switzerland).—Muehlberg, F.
Patagonia (S. America).—Quensel, P., 2; Steffen, H.; Rovereto, G., 2.
Patagonia (Arizona).—Schrader, F. C., 1 & 2.
Patella.—Jukovski, E.; Licharev, B.
Pattalophyllia.—Smith, W. D.
Patton (Pennsylvania).—Ashley, G. H.
Patrician Glacier, Canada.—Tyrrell, J. B., 2.
Pauliberg (Lr. Austria).—Winkler, A., 4.
Pearl Mine, Bendigo.—Baragwanath, W.
Peat, Abruzzi.—Pullé, G.
——, Connecticut.—Davis, C. A.
Peat-pebbles, Belgian rolled.—Fraipont, C., 1 & 2.
Pebbles, facetted.—Ivanov, A. P., 2; Pfannkuch, W.
——, in Campobasso conglomerate.—Chelussi, I., 2.
—— (glaciated), in volcanic agglomerate.—Skeats, E. W., 2.
——, Midland Bunter-.—Matley, C. A.
'Pebbles,' pyrite.—Horwood, C. B.
Peci (Bosnia).—Toula, F.
Pecopteris.—Arber, E. A. N., 4 & 5; Bertrand, P.; Gothan, W.; Kidston, R.
Pecten.—Böhm, J.; Dickerson, R. E., 2; Diener, C.; Holdhaus, K.; Jeannet, A.; Jukovski, E.; Mansuy, H., 3; Oppenheim, P., 2; Paris, E. T.; Smith, W. D.; Tommasi, A.
Pectunculus.—Dollfus, G. F., 9.

Pedina.—Démoly, F.; Jukovski, E.
Pedinopsis.—Fourtau, R.
Peduncular rocks, origin of.—Martel, E. A., 2.
Pegmatite, Finland.—Eskola, P.
——, Madagascar.—Duparc, L., 6.
Peixe R. (Brazil).—Betim Paes Leme, A.
Pelecypoda.—*See* Lamellibranchia.
Peleichthys.—Broom, R., 10.
Pelion.—Moodie, R. L.
Pellice Valley (Piedmont).—Roccati, A., 2.
Pelobates.—Freudenberg, W.
Peltoceras.—Buckman, S. S.
Pembroke Formation, Maine.—Williams, H. S.
Pembrokeshire.—Cox, A. H., 2 & 3; *see also* BRITISH ASSOCIATION COMMITTEE, 4.
Penæus.—Bill, P. C.
Pencaer (Pembrokeshire).—Cox, A. H., 2.
Pench Valley Coalfield (Central Provinces).—Fox, C. S.
Peneplanation, British Isles.—Travis, C. B., 3.
Pennaia.—Shand, S. J., 3.
Pennsylvania (U.S.A.).—Ashley, G. H.; Bliss, E. F.; Hawkins, A. C.; Van Tuyl, F. M., 2; Wright, G. F., 2 & 3.
Pennsylvanian, Utah.—Hintze, F. F., *fil.*
Pentacrinus.—Dareste de la Chavanne, J.; Smith, J. P.; Vadasz, M. E.
Pentamerus.—Liebrecht, F.; Schmidt, W. E.
Pentland Hills (Edinburgh).—Flett, J. S., 2.
Penza (Russia).—Mirtchink, G. F.
Peperite.—Longchambon, M., 6.
Peppard (Oxon).—Peake, A. E.
Perak (F.M.S.).—Scrivenor, J. B., 5.
Perchtoldsdorf (Lower Austria).—Grengg, R.
Perdrix.—Freudenberg, W.
Peridotite, Arkansas.—Miser, H. D.
——, Quebec.—Dresser, J. A.
Perisphinctes.—Zwierzycki, J.
Perisphinctes martelli Beds, N.W. Europe.—Salfeld, H., 3.
Perlis (F.M.S.).—Scrivenor, J. B., 2.
Permian, Argentina.—Bodenbender, G.
——, Brazil.—Lisboa, M. R.
——, Congo Belge.—Fourmarier, P.; Mercenier, M.
——, Cumberland.—Gregory, J. W., 4.
——, Derbyshire.—Gibson, W.
——, Durham.—Trechmann, C. T., 2.
——, Japan.—Deprat, J., 6.
——, Massachusetts.—Sayles, R. W.
——, Morayshire.—Watson, D. M. S., 16.
——, Nottinghamshire.—Carr, J. W.
——, Rhenish Bavaria.—Schuster, M., 2.
——, Samara.—Nechaiev, A.
Permian, Ural Mts.—Chernov, A. A.
——, Yunnan.—Brown, J. C., 3.
Permian-Triassic boundary, Hesse-Nassau.—Meyer, H. L. F.
Permo-Carboniferous, Andes.—Douglas, J. A.
—— ——, Indo-China.—Mansuy, H., 2.
—— ——, Russia.—Varsanofieva, V. A.
—— ——, Shan States.—La Touche, T. H. D.
—— ——, Texas.—Case, E. C., 2.
—— ——, Yunnan.—Brown, J. C., 3.
Perna.—Diener, C.
Pernatty Lagoon (S. Australia).—Wainwright, W. E.
Pernidæ.—Teppner, W., 4.
Pernio (Finland).—Eskola, P.
Perovskite.—Larsen, E. S., 4; Zambonini, F.
Peronella.—Etheridge, R., *fil.*
Perry Mount (Queensland).—Saint-Smith, E. C., 6.
Persia.—Fischer, E.; Scott, A., 3.
Perthshire.—Jehu, T. J.
Peru.—Anon., 54; Douglas, J. A.; Eaton, G. F.; Gregory, H. E., 1 & 2; Jaworski, E., 2; Jiminez, C. P.; Lisson, C. I., 1 & 2; Meyer, H. L. F., 2; Sieberg, A., 2.
Perugia (Umbria).—Canavari, I.
Pesth District (Hungary).—Strömpl, G.
Petchora (Russia).—Zalessky, M. D.
Petersia.—Cossmann, A. E. M.; Jukovski, E.
Petigurus.—Raymond, P. E., 5.
Petraia.—Pruvost, P., 4.
Petrogenesis.—Daly, R. A.
Petrographic classification.—Cross, W., 2.
—— description, objects & methods of.—Berkey, C. P., 2.
Petrographic provinces.—Stark, M.
—— ——, magmatic differentiation and.—Iddings, J. P.
Petrography, graphic representation in.—Adams, F. D.
——, microscopic, index-ellipsoid in.—Wright, F. E., 2.
——, saturation-principle in.—Shand, S. J.
——, textbook of.—Hatch, F. H., 4.
Petroleum, Alberta.—Craig, E. H. C.; Dowling, D. B.; Malcolm, W., 2.
——, Argentina.—Carles, E. de.
——, Assam & Bengal.—Pascoe, E. H., 2.
——, Burma.—Pascoe, E. H.
——, California.—Arnold, R.
——, Canada.—*See* CANADA, Department of Mines.
——, Colorado.—Woodruff, E. G.
——, Illinois.—Blatchley, R. S.
——, Indo-China.—Durandin, P.
——, Kentucky.—Munn, M. J., 1 & 3.
——, Kuban.—Calder, W.; Gubkin, J.
——, Manitoba.—Malcolm, W., 2.

Petroleum, Mid-Continent Field, U.S.A. —Gould, C. N.
——, New Zealand.—Watkins, A. E.
——, North American Red Beds. —Gould, C. N., 2.
——, Oklahoma.—Wood, R. H.
——, Philippine Is.—Pratt, W. E., 1, 3, & 4.
——, Queensland.—Ball, L. C.
——, Samara.—Nechaiev, A.
——, Saskatchewan.—Malcolm, W., 2.
——, South Africa.—Craig, E. H. C., 2.
——, South America.—Fuchs, F. G.
——, Texas.—Phillips, W. B., 2.
——, Trinidad.—Cadman, J.
——, Washington.—Lupton, C. T.
——, origin of.—Chautard, J.; Hofer, H. von.
——, fossil-wood &.—Stuart, M.
——. *See also* Oil-shale.
Petroliferous concretions.—Lohest, M.
Pettycur (Fife).—Benson, M. J.
Pfahl (Bavaria).—Ochotzky, H.; Sokol, R.
Pfahl (Bohemia).—Sokol, R.
Phacoides.—Dickerson, R. E., 2.
Phacops. — Groth, J.; Pæckelmann, W.; Pruvost, P., 4; Reed, F. R. C., 4.
Phaneroptyxis.—Jukovski, E.
Phascolomys gigas.—Stirling, E. C., 2.
Phasianella.—Gregorio, A. de.
Phellodendron.—Menzel, P.
Phenacite.—Michel, H., 5.
Phenacodus.—Drevermann, F.
Philadelphus.—Menzel, P.
Philippine Is.—Cox, A. J., 1 & 2; Dalburg, F. A.; Eddingfield, F. T.; Fanning, F. R.; Maso, M. S.; Pratt, W. E., 1–4; Smith, W. D.; *see also* PHILIPPINE Is., Division of Mines.
Philipstown (King's County).—Haigh, W. D.
PHILLIPS, WILLIAM, *Biogr.* — *See* Phillips, C.
Phillipsastræa.—Chapman, F., 8.
Phillipsia.—Mansuy, H., 1–3; Pruvost, P., 5.
Phlebopteris.—Lignier, O., 9.
Phlycticeras.—Buckman, S. S.
Phlyseogrammoceras.—Schirardin, J.
Phocidaster.—Spencer, W. K.
Phocosaurus.—Watson, D. M. S., 4.
Phœnicites.—Berry, E. W., 3.
Phœnicopsis.—Knowlton, F. H., 3.
Phœnixauchenia.—Rovereto, G., 4.
Pholadomya. — Holdhaus, K.; Pavai Vajna, F. von; Rollier, L.
Phonolite, German S.W. Africa.—Rimann, E., 2.
Phosphate of lime, formation of. — Negre, G., 3.
Phosphates, Ardennes.—Priem, F., 2.
——, Chile.—Brüggen, J.
——, Florida.—Sellards, E. H.
——, Ontario & Quebec.—Schmid, H. S. de.
Phosphates, Somme.—Negre, G.
——, Tunis.—King, P.
——, Utah.—Peterson, W.
——, Virginia.—Stose, G. W.
Phosphatic Chalk, Yonne.—Negre, G., 2.
Phosphorite.—Samojlov, J., 2.
——, Quercy.—Carlsson, A.
——, Senonian.—Linstow, O. von, 3.
Phosgenite.—Mügge, O.
Phrygia (Asia Minor).—Philippson, A.
Phtoramys.—Rovereto, G., 4.
Phylladoderma.—Zalessky, M. D.
Phyllite, Latium.—Meli, R.
——, Tauern.—Sander, B.
Phylloceras.—Pavlov, A. P.; Renz, C., 2; Vadasz, M. E.; Zwierzycki, J., 1 & 2.
Phyllotillon.—Pilgrim, G. E.
Phyloblatta.—Pruvost, P., 6.
Physa.—Jukovski, E.
Physical geography.—Falconer, J. D.
Phytosauria.—Huene, F. von.
Piana R. Basin (Russia).—Masarovich, A. N.
Pianosa I. (Italy).—Stefano, G. de.
Pias (Portugal).—Choffat, P., 2.
Piatigorsk (Caucasus).—Arschinow, W. W.
Picea.—Menzel, P.
Pickeringite.—Simpson, E. S., 6.
Piediluco (Abruzzi).—Clerici, E.; Verri, A.
Piedmont (Italy).—Bassani, F.; Bianchi, A., 1 & 2; Chelussi, I.; Colomba, L.; Craveri, M.; Delgrosso, M.; Grill, E., 1 & 2; Roccati, A., 1 & 2; Zuffardi, P.
Pienaars R. (Transvaal).—Kynaston, H.
Pietraroia (Italy).—Galdieri, A., 2.
Piet Retief (Transvaal). — Humphrey, W. A.
Pigeon Cove (Massachusetts).—Keeley, F. J.
Pilandsberg (Transvaal). — Humphrey, W. A., 3.
Pileolus.—Jukovski, E.
Pilis (Transylvania).—Hoffer, A.
Pillow-lava, Cornwall.—Dewey, H.
—— ——, Wales.—Cox, A. H., 3.
Piltdown (Sussex).—Dawson, C., 1 & 2.
Piltdown man.—Dawson, C.; MacCurdy, G. G., 3.
Pinacea.—Kristofovič, A., 2.
Pinacoceras.—Diener, C.
Pinjarra (W. Australia). — Woodward, H. P., 3.
Pinna.—Dickerson, R. E., 2.
Pinner (Middlesex).—Kidner, H.
Pinnidæ.—Teppner, W., 4.
Pintadoite.—Hess, F. L., 2.
Pinus.—Menzel, P.
Piombino (Italy).—Chelussi, I., 4.
Pirssonite, pseudo-.—Callisen, K.
Pisanite.—Van Horn, F. R., 1 & 3.
Pisces, Carboniferous.—Hussakof, L.; Traquair, R. H., 2.
——, Coal Measures.—Twenhofel, W.

Pisces, Cretaceous. — Erasmo, G. d'; Etheridge, R., *fil.*; Gidley, J. W., 2; Priem, F., 2; Stefani, C. de.
——, Devonian.—Bézier, T.; Hussakof, L.; Lambe, L. M.
——, Eocene.—Priem, F.
——, Kainozoic.—Chapman, F., 11.
——, Karroo.—Broom, R., 10.
——, Mesozoic.—Mann, O.
——, Miocene.—Bassani, F.
——, Permian.—Lambe, L. M., 6; Ries, O. M., 2.
——, Pleistocene.—Shufeldt, R. W.
——, Tertiary.—Lotz, H.; Pilgrim, G. E.; Priem, F., 2.
——, Triassic.—Bryant, H. C., 2.
Pisidium.—Harmer, F. W.
Pisolitic baryte, Texas.—Moore, E. S.
—— limestone, Paris Basin.—Dollfus, G. F., 2.
—— ——, Seine-et-Oise.—Lemoine, P.
Pisonia & *Pistia.*—Berry, E. W., 5.
Pitchblende, Colorado.—Bastin, E. S.
Pitchstones, Arran.—Scott, A., 4.
Pitioxylon.—Barre, H. du L. de la.
Pitticite.—Kræmer, R.
Pityosporites.—Seward, A. C., 4.
Placodine.—Rosati, A., 2 & 3.
Placunopsis.—Jeannet, A.
Plagiohippus.—Rovereto, G., 4.
Plagiophyre, Ayrshire.—Tyrrell, G. W.
Plan-de-Nette (Savoy). — Kilian, C. C. W., 2.
Plane-table mapping.—Higgins, D. F.
Planorbis.—Brown, A. P., 2; Jodot, P., 2; Jukovski, E.
Planorbulina.—Rutten, L., 2.
Plantæ.—Jongmans, W., 1–3.
——, Beacon Sandstone Series.—Seward, A. C., 4.
——, Carboniferous.—Arber, A.; Arber, E. A. N., 4 & 6; Benson, M. J.; Bertrand, P., 1 & 2; Bézier, T., 2; Broussier, F.; Carpentier, A., 1 & 2; Gothan, W.; Jeffrey, E. C., 4; Lignier, O., 6 & 8; Nathorst, A. G., 4; Scott, D. H.; Wilson, W. J., 2.
——, Coal Measures.—Arber, E. A. N., 1–3 & 5; Fraine, E. de; Wills, Lucy.
——, Cretaceous. — Berry, E. W., 5; Knowlton, F. H.; Kristofovič, A., 2; Stopes, M. C.
——, Devonian. — Bertrand, P., 3; Derby, O. A.; Goldschmidt, V. M.; Johnson, T., 1 & 2.
——, Eocene. — Berry, E. W., 1, 2, 4, & 5; Combes, P.
——, Glacial.—Nathorst, A. G., 2.
——, Gondwana.—Seward, A. C.; Zalessky, M. D.
——, Jurassic. — Chapman, F., 9; Knowlton, F. H., 3; Krasser, F.; Lignier, O., 1–4 & 9; Thomas, H. Hamshaw; *see also* BRITISH ASSOCIATION COMMITTEE, 6.
——, Keuper.—Beasley, H. C., 4; Leuthardt, F.
Plantæ, Liassic.—Lignier, O., 6.
——, Mesozoic.—Lignier, O., 7; Yabe, H., 2.
——, Miocene.—Fritel, P. H.; Kristofovič, A.
——, Permian.—Mercenier, M.
——, Pleistocene. — Chapman, F., 12; Reid, C., 2.
——, Pliocene.—Reid, C., 3.
——, Quaternary.—Stephens, T.
——, Rhætic.—Pelourde, F.
——, Tertiary.—Barre, H. du L. de la; Berry, E. W., 3 & 6; Menzel, P.; Wilson, W. J.
——, Wealden.—Seward, A. C., 3.
——, Westphalian.—Kidston, R.
——, classification of fossil.—Halle, T. G.
——, climate & fossil.—Seward, A. C., 2.
——, cuticles of. — Thomas, H. Hamshaw, 2.
——, fossil, in chert.—Stopes, M. C., 2.
——, resins in Palæozoic.—White, D., 3.
——, origin of Dicotyledons.—Wieland, G. R., 1 & 2.
——. *See also* Algæ, Flora, *&* Palæobotany.
Plant - distribution, geological boundaries and.—Horwood, A. R.
—— ——, river - development and. — Horwood, A. R., 2.
—— ——, rock-soil and. — Sargent, H. C.
Plasmopora.—Mansuy, H.
Plastic rocks, depth of deformation of. —Anten, J.
Plata, La (S. Am.).—Cardoso, A.
Platæomys.—Rovereto, G., 4.
Platanus.—Kristofovič, A., 1 & 2.
Platinum, British Columbia.—Camsell, C., 2; *see also* BRITISH COLUMBIA.
——, Canada.—Cartwright, C. T.; *see also* CANADA, Department of Mines.
——, Madagascar.—Duparc, L.
Platyceras.—Mansuy, H., 2; Pæckelmann, W.
Platycolpus.—Raymond, P. E., 5.
Platyhexacrinus.—Schmidt, W. E.
Platysomus.—Lambe, L. M., 6.
Platyspermum.—Arber, E. A. N., 3–5.
Plauen (Saxony).—Nacken, R.
Plectambonites. — Mansuy, H., 3; Quiring, H., 2.
Plectomya.—Rollier, L.
Plegiocidaris.—Fourtau, R.
Pleistocene, Argentina. — Bodenbender, G.
——, Balearic Is.—Bate, D. M. A., 2.
——, British Columbia. — Burwash, E. M., 2.
——, Calabria.—Stefano, G. de, 2.
——, California.—Buwalda, J. P.; Miller, L. H.
——, Cambridgeshire. — Hughes, T. McK.
——, Connecticut.—Schuchert, C., 3.
——, East Prussia.—Meyer, E.

Pleistocene, Florida.—Matson, G. C.
——, France.—Wiegers, F.
——, Hampshire.—White, H. J. O.
——, Hungary.—Ehik, J.; Strömpl, G.
——, Kent.—Chandler, R. H.; Smith, R. A., 2.
——, Maryland.—Gidley, J. W.
——, Missouri R.—Todd, J. E.
——, Montana.—Alden, W. C., 1 & 2.
——, New Hampshire.—Foshay, P. M.
——, Oregon.—Shufeldt, R. W.
——, Prussia.—Wunderlich, E.
——, Quebec & Ontario.—Goldthwait, J. W., 3.
——, Sussex.—Dawson, C., 2; White, H. J. O.
——, Tasmania.—Chapman, F., 6; Nœtling, F., 5.
——, Westphalia.—Kukuk, P., 3.
——, Wexford.—Cole, G. A. J., 2.
——, Wisconsin.—Weidman, S.
—— submergence, North America.—Fairchild, H. L.
——. *See also* Quaternary.
Plesiocyprina.—Rollier, L.
Plesiodus.—Mann, O.
Plesiosauria.—Brandes, T.; Brown, B., 3; Wiman, C., 2.
——. *See also* Reptilia.
Plethopeltis.—Raymond, P. E., 5.
Pleuracanthus.—Reis, O. M., 2.
Pleurolestodon.—Rovereto, G., 4.
Pleuromya.—Douvillé, H.; Holdhaus, K.; Rollier, L.; Smith, J. P.
Pleurophorus.—Diener, C.
Pleuropygus.—Lambert, J., 3.
Pleurosaurus.—Watson, D. M. S., 9.
Pleurostomella.—Franke, A.
Pleurotoma.—Chapman, F., 10.
Pleurotomaria.—Dareste de la Chavanne, J.; Frech, F., 2; Fuchs, A.; Holdhaus, K.; Jukovski, E.; Licharev, B.; Mansuy, H., 3.
Plicatula.—Smith, W. D.; Stefani, C. de.
Pliocene, California.—English, W. A.
——, Cornwall.—Dewey, H.
——, Florida.—Pilsbry, H. A.
——, France.—Wiegers, F.
——, Hérault.—Depéret, C.
——, Italy.—Gignoux, M., 2.
——, Morocco.—Gautier, E. F.
——, Pas-de-Calais.—Gosselet, J., 2.
——, Pyrenees.—Mengel, O.
——, Rhine R.—Douvillé, R.
——, Vienna.—Schlesinger, G., 1 & 2.
—— fauna, United States South Coastal Plain.—Dall, W. H.
Pliolophus vulpiceps.—Anon., 52.
Pliotoxaster.—Fourtau, R.
Plumas County (California).—Turner, H. W., 2.
Plumulites.—Moberg, J. C.
Plutonic rocks, Idaho.—Stewart, C. A.
Pnigalion.—Watson, D. M. S., 4.
Pockels, F. C. A., *Obit.*—*See* Anon., 27; Königsberger, J.
Podocnemis.—Oswald, F.
Podokesaurus.—Huene, F. von, 6.
Podozamites.—Berry, E. W., 5; Knowlton, F. H., 3.
Poeroek Tjahoe (Borneo).—Rutten, L.
Poerua Gold Mine (N.Z.).—Morgan, P. G., 3.
Poleumita.—Mansuy, H., 3.
Polianite.—Rosati, A., 4.
Polle (Hanover).—Grupe, O.
Pollicipes.—Etheridge, R., *fil.*; Withers, T. H., 3.
Polygonal weathering, Iceland.—Thoroddsen, T.
—— ——, frost and.—Högbom, B., 3.
Polymorphina.—Sherlock, R. L.
Polynices.—Smith, W. D.
Polyplectus.—Renz, C., 2.
Polypora.—Mansuy, H., 2; Meyer, H. L. F., 2.
Polypterospermum.—Kidston, R.
Polyptychites.—Pavlov, A. P.
Polyzoa, Carboniferous.—Meyer, H. L. F., 2.
——, Chalk.—Brydone, R. M.
——, Cretaceous.—Lang, W. D., 1 & 2.
——, Eocene.—Canu, F.
——, Jurassic.—Canu, F., 4; Moutier, A.
——, Ordovician.—Foerste, A. F.
——, Permian.—Licharev, B.
——, Permo-Carboniferous.—Mansuy, H., 2.
——, Tertiary.—Canu, F., 2.
——, morphology of.—Canu, F., 3.
Pomarangina.—Mansuy, H., 3.
Pomatias.—Harmer, F. W.
Pomerania (Germany).—Jækel, O., 1, 2, & 5; Jentzsch, A., 4; Keilhack, K.; Menzel, H.; Philipp, H., 2; Salfeld, H., 3; Schulte, L., 1 & 2; Wunderlich, E.
Pommerats, Les (Berne).—Schuh, F.
Pontgibaud (Puy-de-Dôme).—Bertrand, L., 4.
Pontotatus.—Rovereto, G., 4.
Popanoceras.—Smith, J. P.
Porcellanite.—Nœtling, F., 2.
Porcupine (Ontario).—Krusch, P., 3.
Porcupine R. (N. America).—Cairnes, D. D., 1 & 2.
Porifera, Cretaceous.—Etheridge, R., *fil.*; Shimer, H. W.
——, Devonian.—Pruvost, P., 4.
——, Permo-Carboniferous.—Mansuy, H., 2.
——, Silurian.—Chapman, F., 8.
——, Tertiary.—Smith, W. D.
Porina.—Canu, F., 3.
Porodendron & *Porostrobus.*—Nathorst, A. G., 4.
Porohy (Hungary).—Posewitz, T.
Porphyrite, Hainault.—Wen-Hao, W.
——, Rhenish Bavaria.—Schuster, M., 2.
——, Western Australia.—Blatchford, T. A., 2.

Porphyroid, Patagonia & Tierra del Fuego.—Quensel, P., 2.
——, Portugal.—Souza-Brandão, V., 3.
Porphyry, Arizona.—Schrader, F. C., 2.
——, Australian Federal Territory.—Mahony, D. J., 2.
——, Hesse-Nassau.—Meyer, H. L. F., 3.
——, Patagonia & Tierra del Fuego.—Quensel, P., 2.
——, Portugal.—Souza-Brandão, V., 2.
——, Rhenish Bavaria.—Schuster, M., 2.
——, Roxburghshire. — McRobert, R. W., Lady.
——, Western Australia.—Blatchford, T. A., 2.
Porpoceras.—Buckman, S. S.
Port Arthur (Kwantung Peninsula).—Smith, W. D.
Port Curtis District (Queensland). — Ball, L. C.
Port-en-Bessin (Calvados).—Dollfus, G. F., 3.
Portland Canal (B.C.).—McConnell, R. G.
Portland cement.—*See* Cement.
Porto Santo (Madeira).—Finckh, L.
Portugal.—Bello, A. d'O.; Choffat, P., 1, 2, & 5; Grosch, P.; Lambert, J.; Meister, E.; Pruvost, P., 4; Souza-Brandão, V., 1–4.
——, effects of 1775 earthquake in.—Pereira de Sousa, A. A.
——, Geological Survey of.—Anon., 44.
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Portuguese Zambesia.—Molyneux, A. J. C.
Poschiavo (Grisons).—Spitz, A.
Posen (Poland).—Cramer, R.; Jentzsch, A.; Korn, J., 1, 2, & 4.
Posidonia.—Böhm, J.
Posidonomya.—Douglas, J. A.; Fuchs, A.; Mansuy, H.; Pruvost, P., 5.
Post-glacial deformation, Ontario. — Spencer, J. W., 2.
—— denudation.—Strahan, A., 4.
—— time, North America. — Coleman, A. P., 2.
Post-Pliocene.—*See* Quaternary.
Postnicken-West (East Prussia). — Klautzsch, A.
Potamogeton.—Berry, E. W., 5.
Potash, California.—Gale, H. S., 2 & 3.
——, Hungary.—Papp, K. von, 2.
——, Nevada.—Gale, H. S., 4.
——, United States. — Gale, H. S.; Hance, J. H., 2; Phalen, W. C., 2.
Potash-salts, Germany.—Bœke, H. E.
Potassium ferrocyanide, dehydration of.—Gaudefroy, C.
Pothocitopsis.—Nathorst, A. G., 4.
Pot-holes, Yorkshire.—Hill, C. A.
Potonié, H., *Obit.*—*See* Anon., 28.
Pottesville-Allegheny boundary, United States.—White, D.
Pozsony District (Hungary).—Ehik, J.
Præcardium.—Pæckelmann, W.
Præconia.—Douvillé, H.
Prato (Tuscany).—Stefani, C. de, 4.
Pratteln (Basel).—Leuthardt, F.
Pre-Cambrian, British Columbia. — Schofield, S. J., 2 & 3.
——, British Isles.—Strahan, A., 4.
——, Canada.—Coleman, A. P.
——, Finland.—Sederholm, J. J., 2.
——, India.—Holland, Sir Thomas H.
——, Lake-Superior region.—Geijer, P.
——, Michigan.—Allen, R. C., 2.
——, New Jersey.—Bayley, W. S.
——, New York. — Cushing, H. P.; Miller, W. J., 4.
——, North America.—Collins, W. H., 2; Lawson, A. C., 2; Leith, C. K.
——, Ontario.—Collins, W. H.
——, Quebec.—Wilson, M. E.
——, Tasmania.—Ward, L. K.
——, Vermont.—Keith, A., 3.
——, nomenclature of. — Sederholm, J. J., 3.
—— correlation, North America. — Leith, C. K., 2.
—— unconformities, Fennoscandia. — Sederholm, J. J.
Pre-Cretaceous fossil species, New Zealand.—Thomson, J. A.
Prehnite.—Johnston, R. A. A.; Laitakari, A.
Pre-Miocene physiography, Lower Austria.—Schaffer, F. X.
Presidential Range (New Hampshire).—Goldthwaite, J. W., 2.
Presles (Hainault). — Bertiaux, A., 2; Lassine, A., 2.
Pressure, effect of.—Johnston, J., 3.
Prestatyn (Flintshire).—Montag, E.
Primates, phylogeny of.—Gregory, W. K.
Primitia.—Chapman, F., 3.
Princess Royal I. (B.C.).—McConnell, R. G., 3.
Prince Rupert (B.C.).—McConnell, R. G., 2 & 5.
Prince William Sound (Alaska).—Capp, S. R.
Prionastræa.—Smith, W. D.
Prionites.—Diener, C.
Proaguti & *Procariama.* — Rovereto, G., 4.
Proboscidella.—Mansuy, H., 2.
Proboscina.—Canu, F., 4.
Procerithium.—Cossmann, A. E. M.; Dareste de la Chavanne, J.
Prochazka, V., *Obit.*—*See* Tietze, E. E. A.
Procolophon trigoniceps.—Watson, D. M. S., 3.
Prodremotherium.—Pilgrim, G. E.
Productella.—Mansuy, H.
Productus.—Douglas, J. A.; Krenkel, E.; Kozlovski, R.; Licharev, B.; Mansuy, H., 2 & 3; Meyer, H. L. F.; Pruvost, P., 5.
Productus Limestone, Indo-China. — Mansuy, H., 2.
Proeuphractus.—Rovereto, G., 4.

Prolecanites & *Pronorites.*—Dollé, L.
Prolucina.—Fuchs, A.
Promacrauchenia.—Rovereto, G., 4.
Promathildia.—Cossmann, A. E. M.; Dareste de la Chavanne, J.; Jeannet, A.; Mansuy, H.; Tommasi, A.
Pronoella.—Douvillé, H.
Pronothrotherium & *Prophororhacus.*—Rovereto, G., 4.
Prosopon.—Jukovski, E.
Prospondylus.—Tommasi, A.
Proteites.—Diener, C.
Proteoides.—Berry, E. W., 5.
Proterotherium & *Protohydrochœrus.*—Rovereto, G., 4.
Protohippus.—Merriam, J. C., 3.
Protolomatia & *Protophthiria.*—Cockerell, T. D. A.
Protopalæaster.—Spencer, W. K., 2.
Protophragmoceras.—Chapman, F., 8.
Protophyllocladus.—Berry, E. W., 5.
Protorcula.—Cossmann, A. E. M.
Protorosaurus.—Lambe, L. M., 2.
Protozyga.—Foerste, A. F.
Provence (France).—Repelin, J., 2 & 5.
Proverruca.—Withers, T. H., 2.
Prunus.—Boghachev, V.; Menzel, P.
Prussia. — Hess von Wichdorff, H.; Jentzsch, A., 3; Kuwert, F.; Rozsa, M.
——, post-Glacial uplift in.—Wunderlich, E.
—— (East).—Brückmann, E.; Hess von Wichdorff, H., 2; Horn, M.; Klautzsch, A.; Meyer, E.; Tornquist, A.
—— (West).—Jentzsch, A., 4.
Psammechinus.—Démoly, F.
Psammobia. — Dickerson, R. E., 2; Rollier, L.
Psaronius.—Carpentier, A.
—— *braziliensis.*—Derby, O. A.
Pseudanodonta.—Haas, F., 2.
Pseudisocardia.—Douvillé, H.
Pseudocidaris & *Pseudodesorella.* — Jukovski, E.
Pseudodiadema.—Fourtau, R.
Pseudo-glaciation.—Gregorio, A. de, 3.
—— ——, Rhön Mts.—Brückner, E.; Penck, A.; Philipp, H., 3.
—— ——, Vienna.—Götzinger, G., 3.
Pseudogrammoceras & *Pseudolioceras.* —Schirardin, J.
Pseudomelania.—Jukovski, E.
Pseudomonotis.—Böhm, J.; Diener, C.; Holdhaus, K.
Pseudomorphs, polianite after manganite. —Rosati, A., 4.
——, quartz after calcite & barite. — Laubmann, H.
Pseudo-pirssonite.—Callisen, K.
Pseudosageceras.—Diener, C.
Pseudosphærexochus.—Raymond, P. E., 2.
Pseudo-stalactites.—Liesegang, R. E., 2.
Pseudotrapezium.—Douvillé, H.
Pseudotypotherium.—Rovereto, G., 4.
Psilophyton.—Goldschmidt, V. M.
Psioidea.—Thomson, J. A.
Psygmophyllum.—Seward, A. C.
Pteranodon.—Huene, F. von, 7.
Pterinea.—Liebrecht, F.
Pteris.—Kristofovič, A., 2.
Pterocarya.—Menzel, P.
Pterodactyla.—Bogholubov, N. N.
Pterodon.—Pilgrim, G. E.
Pterophyllum.—Wieland, G. R.
Pterosauria, skull of.—Huene, F. von, 7.
Pterospermum.—Arber, E. A. N., 3.
Ptiloleuthis.—Burwash, E. M.
Ptilophyllum.—Halle, T. G.
Ptychites. — Diener, C.; Mansuy, H.; Smith, J. P.; Toula, F.
Ptychocyathus.—Smith, W. D.
Ptychodus.—Jeannet, A.
Ptychomphalus.—Mansuy, H., 1 & 2.
Ptygmatis.—Jukovski, E.; Zuffardi, P., 2.
Puerco Formation, New Mexico.—Sinclair, W. J.
Pugnax.—Kozlovski, R.; Mansuy, H., 2.
Pulvinulina.—Franke, A.; Sherlock, R. L.
Punjab (India).—Heron, A. M.; Pilgrim, G. E.
Punxsutawney (Pennsylvania).—Ashley, G. H.
Purana Group, India. — Holland, Sir Thomas H.
Purbeck, I. of.—Morris, Sir Daniel.
Purcell Mts. (B.C.).—Daly, R. A., 2.
Purcell sills.—Schofield, S. J., 2.
'Purpled' schists, Catalonia.—Pruvost, P., 5.
Purpura.—Harmer, F. W.
Purpurina.—Cossmann, A. E. M.
Purpuroidea. — Cossmann, A. E. M.; Jukovski, E.; Tommasi, A.
Pustertal (Tyrol).—Meusburger, K.
Pustula.—Thomas, I.
Putorius.—Ehik, J.
Puy-de-Dôme (France).—Bertrand, L., 3 & 4; Glangeaud, P., 1 & 2; Gonnard, F., 2; Lemoine, P., 5.
Puzosia.—Yabe, H.; Zwierzycki, J.
Pycinaster.—Spencer, W. K.
Pycnodonta.—Etheridge, R., *fil.*
Pycnodus.—Jukovski, E.
Pycnolepas.—Withers, T. H., 3.
Pygaster.—Hawkins, H. L.
Pygaulus.—Démoly, F.
'Pygmy'-flints.—Warren, S. H., 2.
Pygocephalus.—Peach, B. N.
Pygopterus.—Jeannet, A.
Pyramiodontherium.—Rovereto, G., 4.
Pyrenees.—Erdmannsdörffer, O. H.
——, Cantabrian.—Bertrand, L., 6.
——, French.—Croisiers de Lacvivier, C.; Fournier, E.; Longchambon, M., 2 & 4; Mengel, O.
——, Spanish.—Dalloni, M., 1 & 3.
Pyrite.—Graton, L. C.

Pyrite, Alsace.—Kræmer, R.
——, Canada.—Wilson, A. W. G.
——, Indo-China.—Tronquoy, R., 2.
——, Russia.—Stickney, A. W.
——, Tunis.—Gregorio, A. de, 4.
——, Witwatersrand.—Horwood, C. B.
——, in coal.—Barrois, C., 2.
——, determination of.—Allen, E. T.
—— gossans, cupriferous.—Turner, H. W.
Pyritic concretions in Karroo Sandstones.—Young, R. B., 3.
Pyrmont (Waldeck).—Renner, O.
Pyrope.—Lacroix, A., 6.
Pyroxene.—Hackl, O.
——, alumino-.—Cesaro, G.
——, in igneous rocks.—Weich, A.
Pyroxenite.—Washington, H. S., 2.
——, Quebec.—Dresser, J. A.
——, Ural Mts.—Duparc, L., 8.
Pyroxmangite.—Ford, W. E., 6.
Pyrrhite.—Zambonini, F.
Pyrrhotite, Japan.—Kato, T., 3.
——, chalcopyrite and.—Thompson, A. P.
Pyrula.—Smith, W. D.

Quartz.—Bragg, W. H., 4; Brauns, R.; Drugman, J.; Dunn, E. J., 8; Grill, E., 3; Johansson, H. E.; Laubmann, H.; MacLean, T. A.; Means, A. H.; Scrivenor, J. B., 4; Wright, F. E., 3.
Quartzite, Michigan.—Allen, R. C., 3.
——, Portugal.—Souza-Brandão, V., 3.
——, Tauern.—Sander, B.
Quaternary, Alaska.—Maddren, A. G.; Smith, P. S.
——, Algeria.—Joleaud, L.
——, Andes.—Keidel, H., 2; Willis, B., 2.
——, Argentina.—Rovereto, G., 3.
——, Arizona.—Meinzer, O. E., 2.
——, Baden.—Schnarrenberger, K.
——, Bohemia.—Hibsch, J. E., 3.
——, Burma.—Bion, H. S.
——, California.—Merriam, J. C., 5.
——, Canada.—Lory, P.
——, Cape Province.—Shand, S. J., 2.
——, Clare I.—Cole, G. A. J., 3.
——, Denmark.—Henriksen, K. L.
——, Derbyshire.—Gibson, W.
——, Drôme.—Lamothe, — de.
——, Eifel.—Kobelt, W.
——, Erzgebirge.—Michel, H., 3.
——, Essex.—Maynard, G.
——, Florida.—Matson, G. C.
——, Germany.—Kiekebusch, A.
——, Great Basin (U.S.A.).—Gale, H. S.
——, Hanover.—Tietze, O.
——, Haute-Savoie.—Jukovski, E.
——, Ireland.—Hallissy, T.
——, Landes.—Blayac, J.
——, Lapland.—Ahlmann, H. W.
——, Lübeck.—Friedrich, P.
——, Mecklenburg.—Geinitz, E.
Quaternary, Mediterranean coasts.—Lemoine, P., 3.
——, Middlesex.—Warren, S. H., 4.
——, Missouri.—Dake, C. L.
——, New York.—Fuller, M. L.
——, Nord.—Commont, V.; Douxami, H.
——, Norway.—Danielsen, D.
——, Oldenburg.—Schucht, F.
——, Pennsylvania.—Wright, G. F., 3.
——, Pianosa I.—Stefano, G. de.
——, Rhenish Prussia.—Wunstorf, W.
——, Ross-shire.—Peach, B. N., 2.
——, St. Lawrence R.—Wolff, W., 2.
——, Sardinia.—Issel, A., 2.
——, Saxony.—Schmierer, T.
——, Sicily.—Gregorio, A. de, 5.
——, Silesia.—Michael, R., 3.
——, Shan States.—La Touche, T. H. D.
——, Sussex.—Dawson, C.
——, Sweden.—Högbom, I.; Sandegren, R., 2.
——, Switzerland.—Antenin, F.
——, Tasmania.—Nœtling, F., 7.
——, Toledo.—Mallada, L.
——, Tripoli.—Stella, A.
——, Tyrol.—Ampferer, O.
——, Vendée.—Baudouin, M.
——, Western Australia.—Saint-Smith, E. C.
——, Palæolithic Age and.—Steinmann, J. H. C. G. G.
Quebec (Canada).—Adams, F. D., 2; Cooke, H. C.; Denis, T.; Dresser, J. A.; Goldthwait, J. W., 3 & 5; Graham, R. P. D.; Keele, J., 2; Krusch, P., 3; O'Neill, J. J.; Parks, W. A.; Raymond, P. E., 6, 9, & 10; Schmid, H. S. de; Wilson, M. E., 1 & 2.
Queen Charlotte Is. (B.C.).—Burwash, E. M.; Clapp, C. H., 3.
—— —— Sound (B.C.).—Bancroft, J. A.
Queensferry (Linlithgow).—Flett, J. S., 2.
Queensland.—Ball, L. C., 1 & 2; Cameron, W. E., 1 & 2; Dunstan, B., 1–3; Marks, E. O.,; Newman, J. M., 1 & 2; Saint-Smith, E. C., 4–6.
Queenstown District (Cape Province).—Watson, D. M. S., 3.
Quercus.—Berry, E. W., 5; Menzel, P.
Quercy phosphorites.—Carlsson, A.

Radamus.—Reis, O. M., 2.
Radioactive elements & minerals.—Hamberg, A.
—— minerals, Lake Baikal.—Egorov, C.
—— rocks, Mysore.—Watson, H. E.
—— springs, Canada.—Boyle, R. W.
Radioactivity, rare gases and.—Moureu, C.
Radiolaria, Jurassic.—Smith, W. D.
Radiolites.—Laurent, A.
Radiospermum.—Arber, E. A. N., 3 & 4.
Radium, South Australia.—Ward, L. K., 2 & 7.

Radium, United States.—Anon., 62.
——, Western Australia.—Simpson, E. S.
——, extraction from olary ores.—Radcliff, S.
Radium : uranium ratio in carnotite.—Lind, S. C.
Radium Hill (S. Australia).—Ward, L. K., 2.
Radstock (Somerset).—Bolton, H.
Ragland (Kentucky).—Munn, M. J.
Ragunda (Sweden).—Sandegren, R., 2; Tamm, O.
Rainier, Mt. (Washington).—Matthes, F. E.
Rainy Lake (Ontario).—Lawson, A. C.
Raised beaches, Cornwall.—Dewey, H.
—— ——, Jersey.—Dunlop, A.
—— ——, Var.—Lutaud, L.
Rajputana (India).—Christie, W. A. K.
Raluan I. (Pacific).—Sapper, K.
Ramsey I. (Pembrokeshire). — *See* BRITISH ASSOCIATION REPORT, 4.
Rancho la Brea (California).—Chandler, A. C.; Merriam, J. C., 1 & 5; Stock, C.
Rand Banket. — Hatch, F. H.; Horwood, C. B.
Rare earths in scheelite. — Rohden, C. de.
Rangifer.—Ehik, J.
Rastelligera.—Thomson, J. A.
Rathymotherium.—Rovereto, G., 4.
Ratzeburg (Mecklenburg - Strelitz). — Gagel, C., 2.
Rauhe Alb (Würtemberg).—Montessus de Ballore, F. de, 2.
Receptaculites.—Chapman, F., 8; Liebrecht, F.
Rechna Doab (Punjab).—Heron, A. M.
Rectogloma.—Van Tuyl, F. M., 2.
Redbank (Queensland).—Cameron, W. E., 1 & 2.
Red Beds, Texas & New Mexico.—Case, E. C.; Darton, N. H., 3.
—— ——, petroleum in.—Gould, C. N., 2.
Red Crag, Suffolk.—Hinton, M. A. C.
—— —— shell-portrait.—Christy, M.
Red Deer R. (Alberta).—Brown, B., 4.
Redhill (Surrey).—Davies, G. M.
Redonia.—Douvillé, H.
Red R. Delta (Tongking).—Deprat, J., 7.
Reef-structures, Gothland. — Crosfield, M. C.
Reefs, Victoria.—Dunn, E. J., 8, 11, 12, 13.
Reefton Gold-belt, New Zealand.—Fry, S.
Reichenhall (Bavaria).—Krauss, H.
Reichenspitz (Tyrol).—Götzinger, G., 2.
Reigate (Surrey).—Davies, G. M.
Rein (Styria).—Benesch, F. von.
Reit (Bavaria).—Klebelsberg, R. von, 3.
Reithrodon.—Rovereto, G., 4.
Reiting (Styria).—Folgner, R.
Remopleurides.—Reed, F. R. C., 4.
Renfrew County (Ontario).—Lindeman, E., 4.
Renfrewshire.—Macnair, P.
Rennaz (Vaud).—Bonard, A.
Réole, La (Gironde).—Queyron, P.
Reophax.—Sherlock, R. L.
Replacement.—Butler, B. S., 2; Horwood, C. B.; Lindgren, W., 2.
Reptilia.—Broom, R.; Watson, D. M. S., 4, 6, 7, & 9.
——, Carboniferous.—Watson, D. M. S., 13.
——, Cretaceous.—Bogholubov, N. N.; Brown, B., 1-3; Drevermann, F.; Gilmore, C. W., 1 & 2; Hooley, R. W.; Huene, F. von, 7; Lambe, L. M., 2, 3, & 5; Osborn, H. F., 3.
——, Jurassic.—Huene, F. von, 6 & 7; Mook, C. C.; Sauvage, H. E., 2.
——, Karroo.—Sollas, I. B. J., 2; Watson, D. M. S., 3.
——, Lias.—Brandes, T.
——, Mesozoic.—Wiman, C., 2.
——, Miocene.—Oswald, F.
——, Permian.—Broili, F.; Broom, R., 6, 7, & 11; Huene, F. von, 2; Watson, D. M. S., 2, 5, 8, 10, & 16; Williston, S. W., 3.
——, Permo-Carboniferous.—Williston, S. W., 2.
——, Pleistocene.—Bate, D. M. A.
——, Tertiary. — Pilgrim, G. E.; Rovereto, G., 4; Teppner, W., 2 & 3.
——, Triassic.—Huene, F. von, 1, 6, 8, & 10.
——, dentition in.—Broom, R., 4 & 12.
——, Dicynodont.—Broom, R., 2.
——, footprints of Wealden. — Ballerstedt, M.
——, osteology of.—Broom, R., 5.
Republic District (Washington).—Bancroft, H.
Reteporella.—Licharev, B.
Réthelois (Ardennes).—Priem, F., 2.
Reticularia.—Kozlovski, R.; Mansuy, H., 2; Meyer, H. L. F., 2.
Retinalite.—Julien, A. A., 2.
Rettenegg (Hungary).—Vendl, M., 2.
Rez Mts. (Hungary).—Roth von Telegd, K.
Rhabdocarpus. — Arber, E. A. N., 3; Kidston, R.
Rhabdocidaris.—Lambert, J.
Rhabdoporella.—Rothpletz, A.
Rhætic, Argentina.—Bodenbender, G.
——, Lorraine.—Nicklès, R.
——, Shan States.—La Touche, T. H. D.
——, Somerset.—Evans, J. W., 4.
——, Tongking.—Deprat, J., 7.
Rhamporhynchus.—Huene, F. von, 7.
Rhaxella Chert, Essex.—Thompson, P. G., 2.
Rhea.—Huene, F. von, 7.
Rheda (West Prussia).—Jentzsch, A., 4.
Rhein-Hesse (Germany).—Haupt, O.

Rhenish Bavaria.—Bucher, W.; Laubmann, H.; Reis, O. M., 2; Schuster, M., 1 & 2.
Rhenish Prussia.—Ahlburg, J.; Fliegel, G.; Hess, W.; Krause, P. G.; Ledoux, A.; Menzel, P.; Pæckelmann, W.; Pohlig, H., 2 & 3; Quaas, A.; Quiring, H.; Schuermann, E., 1 & 2; Stamm, K.; Wunstorf, W.
Rhine R. (Switzerland).— Horwitz, L., 1 & 2.
—— ——, in Pliocene times.—Douvillé, R.
Rhine Valley.—Commont, V.; Schuermann, E., 2.
Rhinoceros.—Dawson, C.; Freudenberg, W.
Rhipidomella.—Kozlovski, R.; Meyer, H. L. F., 2.
Rhiwlas Limestone, Bala.—Elles, G. L.
Rhizophora.—Berry, E. W., 5.
Rhodanian, Ain.—Gignoux, M., 3.
Rhodea.—Broussier, F.; Gothan, W.
Rhode Island (U.S.A.).—Loughlin, G. F., 2.
Rhodes I.—Pieragnoli, L.
Rhodesia.—Corstorphine, G. S.; Maufe, H. B.; Mennell, F. P.; Range, P.; Studt, F. E.
Rhön Mts. (Germany).—Brückner, E.; Gachot, H.; Penck, A.; Philipp, H., 3.
Rhône Department (France).—Riaz, A. de.
—— R. (France).—Lamothe, — de.
—— Basin (France).—Lambert, J., 3.
—— Valley (Switzerland).—Bonard, A.
Rhus. — Berry, E. W., 5; Kristofovič, A.; Menzel, P.
Rhynchocerithium. — Cossmann, A. E. M.
Rhynchogonium.—Nathorst, A. G., 4.
Rhynchonella. — Burwash, E. M.; Dickerson, R. E., 2; Diener, C.; Fuchs, A.; Jacob, C., 2; Jeannet, A.; Liebrecht, F.; Mansuy, H., 1 & 3; Meyer, H. L. F., 2; Nielsen, K. B.; Pæckelmann, W.; Renz, C., 4; Smith, J. P.; Tommasi, A.; Vadasz, M. E.
Rhynchonellina.—Vadasz, M. E.
Rhynchopora.—Kozlovski, R.; Licharev, B.
Rhynchopterus.—Smith, J. P.
Rhyolite, Andes.—Douglas, J. A.
Riaumont, Bois de (Pas-de-Calais). — Simon, A.
Rice Lake (Manitoba).—Wallace, R. C., 4.
Richterina.—Pæckelmann, W.
Ricnodon.—Hummel, K.
Riebeckite.—McRobert, R. W., Lady.
Riebeckite - bearing soretite - trachy - andesite.—Kozu, S.
Ries (Germany).—Kranz, W., 2; Schuster, M., 3.
Rieserferne (Tyrol). — Klebelsberg, R. von.
Rigauxia.—Cossmann, A. E. M.; Dareste de la Chavanne, J.
Rimella.—Smith, W. D.
Rioja, La (Argentina). — Bodenbender, G.
Ripple-marks.—Kindle, E. M., 5 & 7.
Rissoa.—Chapman, F., 13.
RITTER, G., *Obit.*—*See* Billiter, O.
Rivadesella (Asturias).—Mengaud, L., 2.
Rivaite.—Zambonini, F.
RIVA-PALAZZI, G., *Obit.*—*See* Taramelli, T.
River-channel, buried, Lanarkshire. — Dron, R. W.
River-development, plant - distribution and.—Horwood, A. R., 2.
River-erosion, rate of.—Keyes, C. R., 7.
River-systems, Africa.—Haas, F.
—— ——, Essex & Midland.—Gregory, J. W., 3.
River-terraces, Vienna.—Schlesinger, G., 1 & 2.
River-valleys, N.W. Germany.—Schucht, F.
—— ——, Ohio.—Coffey, G. N.
—— ——, types of.—Rich, J. L., 3.
Rivers.—Friend, J. N.
—— (pre-Glacial), North America. — Fenneman, N. M.
——, discharge of. — Hall, M. R., 2; Strahan, A., 3.
——, human agency and. — Lamplugh, G. W., 2.
——, flow of, ice and.—Hoyt, W. G.
——, transportation by.—Gilbert, G. K.
——. *See also* Surface-water.
Riversdale Formation, Nova Scotia.—Hyde, J. E.
Road-stones.—Carey, A. E.
—— ——, water and. — Fearnsides, W. G.; Howe, J. A.
Robe (Pomerania).—Schulte, L.
Robin-Hood Quarry (Leeds).—Burnet, A.
Roccamonfina (Italy).—Galdieri, A.
Roche Miette (Alberta).—Lambe, L. M.
Rochester (Kent).—Finch, W. C.
Rockall I. (Atlantic).—Judd, J. W.
Rockallite.—Washington, H. S.
Rocks, alveolar structure of. — Lohest, M., 2.
——, colour - microphotography of.—Orueto, D. de.
——, density of fractured.—Becker, G. F.
——, density of, at high temperature.—Day, A. L., 4.
——, genetic classification of.—Crook, T.
——, influence of pressure on.—Ewald, —.
——, origin of peduncular. — Martel, E. A., 2.
——, thermal expansion of.—Schulz, K.
——. *See also* Igneous rocks, Magma, Petrography, *&* Sedimentary rocks.
Rock-analysis.—Connor, M. F.
Rock-boring molluscs.—Struebin, K,

Rock-salt.—Andrée, K., 5.
—— ——, Burma.—Pascoe, E. H.
—— ——, Silesia.—Michael, R., 2.
—— ——, plasticity of.—Milch, L.
—— ——. *See also* Salt.
Rock-slides, engineering and.—Rice, G. S.
Rock-soils, plant-distribution and.—Sargent, H. C.
Rocky Mts. (North America).—Allan, J. A.; Alden, W. C.; Knowlton, F. H., 2; Lee, W. T., 2.
Rodadero (Peru).—Gregory, H. E., 2.
Röragen (Norway).—Goldschmidt, V. M.
Röros (Norway).—Goldschmidt, V. M., 1 & 3.
Rogers Gap (Kentucky).—Foerste, A, F.
Rohnau (Silesia).—Berg, G.
Rokewood (Victoria).—Dunn, E. J., 3.
Rolandseck (Rhenish Prussia).—Schuermann, E., 2.
Rolla (Missouri).—Lee, Wallace.
Romainville (Paris Basin).—Lacroix, A., 10.
Rome (Italy).—Rosati, A.
Romingeria.—Mansuy, H., 2; Rothpletz, A.
Roncobello (Lombardy).—Tommasi, A.
Ronquières (Belgium).—Malaise, C.
Rooiberg (Transvaal).—McDonald, D. P.; Recknagel, R.
Roscoelite.—Wright, F. E., 4.
Rosebud County (Montana).—Rogers, G. S.
Rosenbusch, K. H. F., *Obit.* — *See* Anon., 29; Bäckström, H.; Judd, J. W., 6; Milch, L., 3; Pirsson, L. V.; Strahan, A., 2; Wülfing, E. A.
Rosignano (Piedmont).—Bassani, F.
Ross-shire.—Peach, B. N., 2.
Rostellaria.—Harmer, F. W.
Rostrocarinate flint-implements, formation of.—Sollas, W. J.
Rothenzechau (Silesia).—Berg, G.
Rothliegendes, Rhenish Bavaria.—Schuster, M.
Rougemont Mt. (Quebec).—O'Neill, J. J.
Rougemontite.—O'Neill, J. J.
Roussillon (Pyrenees).—Mengel, O.
Rouvillite.—O'Neill, J. J.
Roxburghshire. — McRobert, R. W., Lady.
Roya (Alpes Maritimes).—Kilian, C. C. W.
Royal Albert Dock.—Binns, A.
Royan (Charente).—Douvillé, H., 2.
Rozsonda (Transylvania). — Roth von Telegd, L.
Rubiaceæcarpum.—Menzel, P.
Rubidium.—Vernadsky, W.
Ruby.—Michel, H., 2 & 4.
Ruby (Alaska).—Brooks, A. H.
Rudistæ fauna, Friuli.—Klinghardt, F.
Rügen (Baltic).—Jækel, O., 2.
Ruhbank (Silesia).—Zimmermann, E., 1.
Ruhr District (Germany).—Kukuk, P., 1 & 2.
Runaway, Cape (N.Z.).—Marshall, P., 3.
Runcorn Hill (Cheshire).—Beasley, H. C., 3; Maidwell, F. T.
Rupertia.—Rutten, L., 2.
Rupunini (British Guiana).—Harrison, J. B., 3.
Rurutu I. (Pacific).—Marshall, P., 2.
Russia.—Timko, E., 2.
——, Miocene floras of Central.—Kristofovič, A.
——, phosphorite-deposits of.—Samojlov, J., 2.
Ruta.—Menzel, P.
Rutile.—Jutson, J. T., 2; Simpson, E. S., 6.
Rutiodon.—Huene, F. von.

Saarbrück (Lorraine).—Handlirsch, A.
Sabalites.—Berry, E. W., 5.
Sachseln (Unterwalden).—Buxtorf, A.
Sacramento R. Basin (California). — Wood, B. D.
Sageceras.—Smith, J. P.
Sagenites.—Mansuy, H.
Sagittario (Abruzzi).—Zuffardi, P., 3.
Sagne (Basses-Alpes).—Guébhard, A.
Sahara (Africa).—Chudeau, R.
Saignelégier (Berne).—Schuh, F.
St. Albans (Hertfordshire).—Pocock, R. W., 2.
St. Andrews (Fife).—Jehu, T. J., 2.
St. Anthony Mine (Ontario).—Uglow, W. L.
St. Arnoult (Oise).—Ramond, G.
St. Austell (Cornwall).—Hall, T. C. F., 2.
Sainte Baume (Var).—Repelin, J., 4.
San Domingos (Portugal).—Pruvost, P., 4.
Sainte-Engrâce (Basses Pyrénées). — Bertrand, L., 2; Fournier, E., 2.
San Franciscan volcanic field (Arizona).—Robinson, H. H.
San Francisco (Utah).—Butler, B. S., 2.
St.-Germain-le-Fouilloux (Mayenne).—Bézier, T.
St. Helens (Washington). — Winchell, H. V.
St. Hilaire Mt. (Quebec).—O'Neill, J. J.
Ste.-Honorine-la-Guillaume (Orne). — Lignier, O., 5.
San Joaquin R. (California).—Gester, G. C.
St. Joseph I. (Lake Huron).—Leverett, F., 6.
San Juan (Colorado).—Atwood, W. W.
San Juan Basin (New Mexico).—Sinclair, W. J.
St. Kreuz (Alsace).—Kræmer, R.
St. Lawrence R. (Canada).—Wolff, W., 2.
Lt. Lawrence R. Basin (U.S.A.), surface-water.—Covert, C. C.

San Luis Obispo County (California).—Gale, H. S., 5.
San Marco la Catola (Campania).—Checchia-Rispoli, G.
St.-Martin-du-Tertre (Yonne).—Negre, G., 2.
San Matteo di Ploaghe (Sardinia).—Lovisato, D., 2.
St. Mary Bay (Nova Scotia).—Wilson, A. W. G., 2.
St.-Omer (Pas-de-Calais).—Gosselet, J.
San Pablo Series.—Clark, B. L., 2.
St. Paul (Minnesota).—Sardeson, F. W.
San Pedro (California).—Miller, L. H.
St.-Pierre-la-Cour (Mayenne).—Kerforne, F.
St.-Pons (Bouches-du-Rhône).—Haug, E., 3.
San Salvatore (Ticino).—Escher, B. G.
St. Tudwal's Peninsula (Carnarvonshire).—Nicholas, T. C., 1 & 2.
San Valentino (Abruzzi).—Prever, P. L.
Sakurajima (Japan).—Nishio, K.; Omori, F., 4; Sieberg, A., 4.
Salenia.—Démoly, F.; Fourtau, R.
Salève (Haute-Savoie).—Favre, J.; Jukovski, E.
Saline Valley (California).—Gale, H. S., 3.
Salins (Jura),—Piroutet, M.
Salix.—Berry, E. W., 5.
Salomone, Mte (Rome).—Rosati, A.
Salpingostoma.—Fuchs, A.
Salt, Austria.—Görgey, R. von.
——, California.—Gale, H. S., 3.
——, Canada.—Cole, L. H.
——, Germany.—Jentzsch, A., 2.
——, German E. Africa.—Kœrt, W.
——, Prussia.—Rozsa, M.
Salt-deposits, Transcaucasia, fauna of.—Boghachev, V.
Salt-springs, Silesia.—Michael, R., 2.
——. *See also* Rock-salt.
Salt Range, India.—Pilgrim, G. E., 2.
Salta (Argentina).—Carles, E. de.
Salten (Norway).—Vogt, T.
Saltese (Montana).—Calkins, F. C.
Saltpetre, Chile.—Sundt, L.
Salzburg (Austria).—Hahn, F. F.
Samara (Russia).—Nechaiev, A.
Samaropsis.—Arber, E. A. N., 3–5; Kidston, R.
Samarospermum.—Arber, E. A. N., 3 & 5.
Sambre R. (Belgium).—Stevens, C.
Samland (East Prussia).—Brückmann, R.; Horn, M.; Meyer, E.
Sand, Australian coast.—Halligan, G. H., 1 & 2.
——, Croatia.—Kucan, F.
——, Gloucestershire.—Richardson, L., 4.
——, Hungary.—Vendl, A., 3.
——, Kalahari Desert.—Rimann, E., 3.
——, King I.—Anderson, W.
Sand, Libyan Desert.—Beadnell, H. J. L.
——, Madagascar.—Duparc, L., 1 & 2.
——, Madras.—Spring, Sir Francis J. E.
——, Sicily.—Chelussi, I., 3.
——, Victoria.—Dunn, E. J., 4.
——, action of tides & waves on.—Cornish, V.
——, movement of, in water.—Owens, J. S.
Sand-lime bricks, Philippine Is.—Cox, A. J., 2.
Sandstone, Cheshire.—Beasley, H. C., 3 & 4.
——, Devon copper-bearing.—Carus-Wilson, C.
——, Warwickshire & Worcestershire.—Wills, L. J.
——, cleavage of Armorican.—Anthoine, R.
——, pyritic concretions in Karroo.—Young, R. B., 3.
Sandstone reefs, Brazil.—Waring, G. A.
Sandy-Bay District (N.Z.).—Thomson, J. A., 3.
Sandy Cove (Tasmania).—Nœtling, F., 4.
Sangamon interglacial period.—Upham, W., 2.
Sangla Hills (Punjab).—Heron, A. M.
Sanguinolites.—Douvillé, H.; Hind, W., 2; Mansuy, H., 3.
Sanidinite.—Gachot, H.
Santa Fe County (New Mexico).—Lee, W. T.
Santander (Spain).—Bertrand, L., 6; Mengaud, L.
Santorin I. (Greece).—Kichler, L.
Sapindus.—Berry, E. W., 5; Kristofovič, A.
Sapotacites.—Menzel, P.
Sapphire.—Wittich, E.
Saratoga (Texas).—Moore, E. S.
Saratoga Springs (N.Y.).—Clarke, J. M., 3; Cushing, H. P.; Ruedemann, R.
Saratov (Russia).—Bogholubov, N. N.; Semikhatov, A. N., 2.
Sardinia.—Deprat, J., 11; Issel, A., 2; Krasser, F.; Manasse, E.; Novarese, V.; Termier, P.; Washington, H. S., 3, 5, & 6.
Sarmatian, Russia.—Kristofovič, A.
——, Styria.—Winkler, A., 2.
Saromata Mts. (Greece).—Renz, C., 4.
Sarsens, Essex.—Salter, A. E.
Sarthe (France).—Bigot, A., 9.
Saskatchewan (Canada).—Malcolm, W., 2; Ries, H., 2 & 3.
Sassalbo (Rhætian Alps).—Spitz, A.
Sassnitz (Pomerania).—Jækel, O., 5.
Satsuma (Japan).—Anon., 58.
Saturna I. (B.C.).—Clapp, C. H., 2.
Sauerland (Westphalia).—Henke, W., 3.
Saukia.—Walcott, C. D.
Saurischia.—Huene, F. von, 4, 5, 8, & 10.
Saurolophus.—Brown, B.
Savona (B.C.).—Rose, B.

Savoy (France).—Combaz, P.; Démoly, F.; Gignoux, M.; Hollande, D.; Kilian, C. C. W., 2; Pussenot, C.
——. *See also* Haute-Savoie.
Saxifragaceæcarpum.—Menzel, P.
Saxonian folding.—Stille, H.
Saxony.—Beger, P. J., 1 & 2; Brandes, T.; Etzold, F.; Heide, F.; Krenkel, E., 2 & 3; Linstow, O. von, 2; Nacken, R.; Pietzsch, K., 1–3; Schmierer, T., 1 & 2; Schreiter, R.; Simon, M.; Weise, E.
Scacchia.—Nelli, B.
Scalaria.—Nelli, B.; Tommasi, A.
Scalea, Grotta di (Calabria).—Campana, D. del, 3.
Scalpellum.—Withers, T. H., 4.
Scandinavia.—Ampferer, O., 2; Brückner, E., 4.
Scandinavian drift, Durham. — Trechmann, C. T.
Scania.—Sandegren, R.
Scanno (Abruzzi).—Clerici, E.; Zuffardi, P., 3.
Scaphognathus.—Huene, F. von, 7.
Scaphopoda, Quaternary.—Smith, W. D.
——, Tertiary.—Chapman, F., 13.
——, Triassic.—Tommasi, A.
Scapolite.—Stansfield, J.; Vorobiev, A. L.
Scelidodon.—Rovereto, G., 4.
Sceparnodon ramsayi.—Stirling, E. C., 2.
Schaaken (East Prussia). — Klautzsch, A.
Schackau (Rhön Mts.).—Gachot, H.
Schaffhausen (Switzerland). — Schalch, F.
Schauinsland (Baden). — Schnarrenberger, W., 3.
Scheelite, rare earths in.—Rohden, C. de.
Schefferite.—Uhlig, J., 2.
Schellwienia.—Meyer, H. L. F., 2.
Schiefergebirge (Rhineland). — Kaiser, E.; Stamm, K.
Schimperella.—Bill, P. C.
Schin-op-Geul (Limburg). — Klein, W. C., 3.
Schists, Catalonia.—Pruvost, P., 5.
—— (crystalline), Celebes. — Brouwer, H. A.
——, Portugal.—Souza-Brandão, V., 3.
——, Pyrenees. — Erdmannsdörffer, O. H.
——, Ural Mts.—Duparc, L., 3 & 8.
Schizaster.—Dickerson, R. E., 2; Fourtau, R.; Smith, W. D.
Schizodus.—Mansuy, H., 3.
Schizoneura.—Zalessky, M. D.
Schizophoria.—Kozlovski, R.; Mansuy, H., 2.
Schizopoda, Tertiary.—Bill, P. C.
Schizopodium renaulti.—Lignier, O., 4.
Schizospermum.—Arber, E. A. N., 3.
Schleswig-Holstein. — Gagel, C., 2; Wolff, W.
Schlotheimia.—Schmidt, E. W.
Schmiedeberg (Silesia).—Berg, G., 1 & 2.
Schmölnitz (Hungary).—Scharizer, R.
Schocken (Posen).—Korn, J.
SCHOPP, H., *Obit.*—*See* Anon., 30.
SCHUCHERT'S 'Cincinnatic' System.—Ulrich, E. O., 2.
Schwagerina.—Deprat, J.
Schwersenz (Posen).—Jentzsch, A.
Sciadopitys.—Menzel, P.
Scillælepas.—Withers, T. H., 3.
Sciurus.—Hinton, M. A. C.
SCLATER, P. L., *Obit.*—*See* Anon., 31; Pycraft, W. P.; Salvadori, T.; Strahan, A., 2.
Sclerocalyptus.—Rovereto, G., 4.
Scleromochlus.—Huene, F. von, 6.
Scombroclupea.—Erasmo, G. d'.
Scorodite.—Graham, R. P. D., 2.
Scotland, Carboniferous of.—Smith, J.
——, flint-implements in.—Smith, F., 2.
——, ancient iron-industry of. — Macadam, I.
——, oil-shales of.—Ells, R. W.
——, pre-Cambrian of.—Strahan, A., 4.
——. *See also* Fife, *&c.*
Scottish Gympie Gold-Mine (Queensland).—Dunstan, B., 3.
Scottish National Antarctic Expedition, 1902–04.—Pirie, J. H. H., 1 & 2.
Scrobicularia Clay, Charente Inférieure.—Welsch, J.
SCUDDER, S. H., *Obit.*—*See* Gautier, M., 2.
Scurria.—Diener, C.
Scutella-breweriana Zone.—Clark, B. L.
Scutella gibbercula.—Lambert, J., 2.
Scymnognathus.—Broom, R., 8; Watson, D. M. S., 7.
Sea-level, changes of.—Cayeux, L., 6.
Sea-lochs, tectonics of Scottish.—Gregory, J. W., 11.
Sea-water, calcium-carbonate deposits and.—Dole, R. B.
Sea Point (Cape Province).—McDonald, D. P., 3; Schwarz, E. H. L.
Seaford (Sussex).—Elsden, J. V., 2.
Searlesia.—Harmer, F. W.
Searlesite.—Larsen, E. S., 1 & 2.
Seas, Palæozoic shelf-.—Chamberlin, T. C.
Sebastopol (Crimea).—Borissiak, A.
Secondary enrichment.—Donaldson, R. J.; Nishihara, G. S.; Rogers, A. F., 2; Tolman, C. F., *fil.*; Turner, H. W., 2.
Secondary silicate-zones.—Higgins, D. F., 2; Kemp, J. F., 3; Stewart, C. A., 2; Uglow, W. L., 2.
Secular elevation & depression, New Zealand.—Cotton, C. A., 2.
—— —— ——, North Germany.—Wunderlich, E.
Sediments, classification of. — Trowbridge, A. C.
——, pelitic, magmatic differentiation and.—Hobbs, W. H., 2.

Sedimentation, Maryland.—Hunter, J. F., 3.
——, aqueo-glacial.—Lahee, F. H., 4.
Sedimentation-cycles, magnesia and.—Longchambon, M., 3.
Sedgwick Museum, Cambridge, *Ornithocheirus* in.—Hooley, R. W.
Sedgwickia.—Hind, W., 2; Mansuy, H., 3.
Seebach (Hungary).—Vendl, M., 2.
Seeburg, Lake (Hanover).—Kœnen, A. von.
Seeland (Switzerland).—Antenin, F.
Segesvar (Transylvania). — Roth von Telegd, L.
Seine Series, Ontario.—Lawson, A. C.
Seine-et-Marne (France).—Lemoine, P., 2.
Seine-et-Oise (France).—Lemoine, P.
Seismographs.—Gholitzuin, Prince B., 3; Rempp, G., 1 & 2.
Seismology.—*See* BRITISH ASSOCIATION COMMITTEE.
——. *See also* Earthquakes.
Selkirk Mts. (B.C.).—Daly, R. A., 2.
Semecarpites.—Fritel, P. H.
Seminula.—Douglas, J. A.; Linstow, O. von, 3.
Senonian, Germany.—Linstow, O. von, 3.
——, Var.—Lutaud, L.
Sens (Yonne).—Negre, G., 2.
Sequanian, gap between Oxfordian and.—Ivanov, A. P.
Sequoia.—Berry. E. W., 5; Menzel, P.
Seraphs.—Dickerson, R. E., 2.
Serena, La (Chile).—Brüggen, J., 2 & 4.
Serdoba (Saratov Govt.).—Bogholubov, N. N.
Sergach (Russia).—Masarovich, A., 2.
Seriphos I. (Ægean).—Ktenas, C. A., 1 & 2.
Serpentine, Macedonia.—Hezner, L., 2.
——, New York.—Crosby, W. O.
——, Portugal.—Souza-Brandão, V., 3.
——, Quebec.—Dresser, J. A.
——, Ural Mts.—Duparc, L., 8.
——, tourmaliniferous.—Duparc, L., 7; Lacroix, A., 4.
Serpula.—Etheridge, R., *fil.*; Stefani, C. de.
Setuval Peninsula (Portugal).—Choffat, P.
Sevenoaks (Kent).—Davies, G. M.
Severn R.—Strahan, A., 3.
Seymouria.—Williston, S. W., 2.
Sezze (Alessandria).—Crema, C., 2.
Sgurr of Eigg.—Bailey, E. B., 2; Harker, A., 2.
Shales, Australian Federal Territory.—Mahony, D. J., 2.
——, Canada.—Ries, H., 2.
——, New Brunswick.—Keele, J.
——, Washington.—Shedd, S.
——. *See also* Oil-shale.
Shan States (Burma).—La Touche, T. H. D.
Shark-River Inlet (New Jersey).—Kümmel, H. B.
SHARMAN, G., *Obit.*—*See* Anon., 32.
Shawangunk Conglomerate, New York.—Brown, T. C.
Shear, angle of.—Dahlblom, T.
Sheep River (Alberta).—Dowling, D. B.
Shelf-seas, Palæozoic.—Chamberlin, T.C.
Shelly faunas, British Ordovician.—Elles, G. L., 2.
Shenandoah Valley (Virginia).—Watson, T. L., 2.
Sheppey (Kent).—Davies, G. M.
Sherborne (Dorset).—Woodward, A. S.
Shinarump Conglomerate.—Gregory, H. E., 4.
Shippea Hill (Cambs.).—Hughes, T. McK.
Shirvanskaia (Kuban).—Gubkin, J.
Shore-lines, Ohio.—Hubbard, G. D., 3.
—— ——, Quebec.—Goldthwait, J. W., 5.
—— ——, contra-imposed.—Clapp, C. H.
Shropshire.—Arber, A. E. N., 4; Cobbold, E. S.; Crosfield, M. C.; Meachem, F. G.; Raw, F.; Walker, W. T., 2.
Siachen Basin (Kashmir).—Workman, W. H., 2.
Siam.—Högbom, B., 2; Michel, H., 4.
Siberia.—Pavlov, A. P.; Weigel, O.
Sibirites.—Diener, C.
Siblingen (Schaffhausen).—Schalch, F.
Siccar Point (Berwick).—Flett, J. S., 2.
Sicily.—Chelussi, I., 3 & 4; Davison, C., 2 & 6; Fucini, A.; Gregorio, A. de, 2 & 5; Ponte, G.
Sichota-Alin (Siberia).—Weigel, O.
SIDENBLADH, E., *Obit.*—*See* Erdmann, E., 2.
Siderite, Alps.—Becke, F.
——, Alsace.—Kræmer, R.
Siderolites.—Stefani, C. de.
Sideroplesite.—McDonald, D. P.; Recknagel, R.
Siegerland (Germany).—Liebrecht, F.
Sierra Morena (Spain).—Groth, J., 2–4.
Sierra Nevada (California).—Dickerson, R. E., 3.
Siestan Formation, California.—Merriam, J. C., 4.
Sigaretus,—Stefani, C. de.
Sigillaria.—Arber, E. A. N., 4; Kidston, R.; Nathorst, A. G., 4.
Sigillariostrobus.—Arber, E. A. N., 4.
Silesia.—Assmann, P.; Berg, G., 1 & 2; Guerich, G.; Kühn, B.; Michael, R., 1–3; Quitzow, W.; Renz, C.; Rimann, E.; Sachs, A., 1 & 2; Schöndorf, F., 3; Werne, —; Zimmermann, E., 1.
Silica.—Bowen, N. L.; Fenner, C. N.
Silicates.—Dœlter, C.
Silicate-zones, secondary.—Higgins, D. F., 2; Kemp, J. F., 3, Stewart, C. A., 2; Uglow, W. L., 2.

Sills.—Daly, R. A.
Silurian, Belgium. — Bertiaux, A., 2; Lassine, A., 2; Malaise, C., 1, 2, & 4.
——, Bohemia.—Nowak, E.
——, Galway.—Gardiner, C. I.
——, Illinois & Iowa.—Savage, T. E.
——, Manitoba.—Kindle, E. M.
——, Missouri.—Keyes, C. R., 5; Savage, T. E.
——, New York.—Brown, T. C.; Kindle, E. M., 7; Schuchert, C., 6.
——, Niagara Gorge.—Kindle, E. M., 6.
——, Normandy.—Anthoine, R.; Bigot, A.
——, Ontario.—Schuchert, C., 6, Williams, M. Y., 1 & 2.
——, Sardinia.—Novarese, V.
——, Shan States.—La Touche, T. H. D.
——, Shropshire.—Crosfield, M. C.
——, Sweden. — Rothpletz, A.; Törnquist, S. L.
——, Toledo.—Mallada, L.
——, Victoria.—Chapman, F., 1 & 8.
——, Yunnan.—Brown, J. C., 2.
Silurian-Devonian contact, Namur. — Devivier, P.
Silurian-Ordovician boundary.—Ulrich, E. O., 2.
Siluro-Cambrian, Belgium.—Malaise, C., 3.
Silver, Argentina.—Bodenbender, G., 2.
——, California.—Knopf, A., 3 & 4.
——, Canada.—Cartwright, C. T.
——, Idaho.—Umpleby, J. B., 2.
——, Ontario.—Krusch, P., 3.
Silver enrichment.—Palmer, C., 2.
Simav (Asia Minor).—Brauns, R., 2.
Simbirskites.—Pavlov, A. P.
Simcoe, Lake (Ontario).—Johnston, W. A.
Simplimus.—Rovereto, G., 4.
Simplon District (Valais).—Preiswerk, H., 2; Rothpletz, A., 2.
Simplon Tunnel.—Preiswerk, H.
Sinopa.—Drevermann, F.
Sipho.—Harmer, F. W.
Sirenian, Hérault.—Depéret, C.
Sirenites.—Krauss, H.
Siwaliks, correlation of.—Pilgrim, G. E., 2.
Skagway (Alaska).—McConnell, R. G., 5; Wolff, W., 2.
Skeena (B.C.).—McConnell, R. G.
Skeena R. Valley (B.C.).—McConnell, R. G., 5.
Skemmatite.—Ford, W. E., 6.
Skiodrome models.—Tertsch, H., 2.
Slades Green (Kent).—Chandler, R. H.
Slate, New South Wales.—Carne, J. E.
——, South Australia.—Ward, L. K., 5.
Slate-granite contact, Cape Province.—McDonald, D. P., 3; Schwarz, E. H. L.
SLATER, H. K., *Obit.*—*See* Strahan, A., 2.
Slavonia.—Mauritz, B.
Småland (Sweden).—Gavelin, A., 2.
Smedborg (Sweden).—Van Post, L.
Smedby (Sweden).—Svenonius, F.
Smeinogorsk (Altaï).—Mayer, G.
Smithoceras.—Diener, C.
Smithsonite.—Loughlin, G. F.
Smittia.—Canu, F., 2.
Snow-line, retreat of Glacial.—Machatschek, F.
Soda, Saxony.—Simon, M.
Sodalite-syenite, Bohemia. — Michel, H.
Sörland (Norway).—Danielsen, D.
Soils, British Guiana.—Harrison, J. B., 3.
——, Cameroons & Togoland.—Kœrt, W.
——, Clare I.—Cole, G. A. J., 3.
——, German E. Africa.—Kœrt, W.
——, Hungary.—Inkey, B. de; Laszlo, G. von; Timko, E.; Treitz, P.
——, Iceland.—Thoroddsen, T.
——, Ireland.—Hallissy, T.
——, New Jersey.—Blair, A. W.
——, Nyasaland.—Anon., 45.
——, Philippine Is.—Cox, A. J.
——, Spitsbergen.—Meinardus, W.
——, Sweden.—Tamm, O.
——, analysis of.—Ballenegger, R., 2; Blair, A. W.
——, circulation of water in.—Johansson, S.
——, desert.—Gregory, J. W., 10.
——, fertility of.—Russell, E. J.
——, freezing of.—Deeley, R. M., 2.
——, glacial.—Engeln, O. D. von.
——, mineral constituents of.—Hall, A. D.
——, permeability of.—Sahlström, K. E.
——, plant-distribution & rock-.—Sargent, H. C.
Solberget (Sweden).—Svenonius, F., 2.
Solenopora.—Garwood, E. J., 2; Rothpletz, A.
Solenopsis.—Fuchs, A.
Solifluction.—Högbom, B., 3.
Solution, erosion and.— Goldschmidt, V. M., 2.
Somaliland, Italian.—Stefanini, G.
Somerset.—Balch, H. E.; Bolton, H.; Cantrill, T. C.; Evans, J. W., 4; Keith, A., 4; Richardson, L.; Winwood, H. H.
Somme (France).—Negre, G.
Somogy (Hungary).—Ballenegger, R.
Sondershausen (Saxony). — Schreiber, H.
Sooke (B.C.).—Clapp, C. H., 4.
Soomylacris.—Pruvost, P., 6.
Soretite - trachyandesite, riebeckite - bearing.—Kozu, S.
Sorex.—Freudenberg, W.
Sorites.—Rutten, L., 2.

South Africa. — Anon., 48; Cloos, H.; Corstorphine, G. S.; Craig, E. H. C., 2; Harger, H. S.; Suess, E.; Watson, D. M. S., 12.
—— ——. *See also* Cape Province, Transvaal, *&c.*
South Atlantic Ocean, deposits from.—Pirie, J. H. H.
South Australia.—Jack, R. Lockhart, 1 & 2; Mawson, D., 1 & 2; Wainwright, W. E.; Ward, L. K., 2–8; *see also* SOUTH AUSTRALIA, Department of Mines.
South Fork District (Alberta).—MacKenzie, J. D.
South Georgia I.—Ferguson, D.
South Orkney Is.—Pirie, J. H. H., 2.
South Shetland Is.—Gourdon, E.
South Star Mine, Victoria.—Dunn, E. J., 2.
Southern Cross (W. Australia).—Saint-Smith, E. C., 2, 3, & 7.
Southern Rhodesia. — Lightfoot, B.; Molyneux, A. J. C.; Wagner, P. A., 2; *see also* SOUTHERN RHODESIA, Geological Survey.
Spain.—Grosch, P.; Groth, J., 2–4.
——. *See also* Catalonia, Murcia, *&c.*
Spangolite.—Ford, W. E., 3.
Sparnacian, Paris Basin.—Combes, P.
Spathella.—Hind, W., 2.
Speeton Clay, Yorkshire.—Sherlock, R. L.
Spessartite. — Duparc, L., 6; Lacroix, A., 6.
Speziaite.—Colomba, L.
Sphæra.—Smith, J. P.
Sphærexochus.—Reed, F. R. C., 4.
Sphærocodium.—Rothpletz, A.
Sphærosiderite.—Angel, F.
Sphærospongia.—Liebrecht, F.
Sphærostoma. — Benson, M. J.; Wieland, G. R.
Sphærotherium.—Peach, B. N.
Sphenia.—Nelli, B.
Sphenodon.—Watson, D. M. S., 9.
Sphenophyllum. — Arber, E. A. N., 5; Kidston, R.
Sphenopteridium.—Nathorst, A. G., 4.
Sphenopteris.—Arber, E. A. N., 4 & 5; Gothan, W.; Kidston, R.; Mansuy, H., 3; Nathorst, A. G., 4.
Sphyropteris.—Gothan, W.
Spiennes (Hainault).—Rahir, C.
Spilites.—*See* Pillow-lava.
Spirifer.—Asselbergs, E.; Douglas, J. A.; Frech, F., 2; Fuchs, A.; Kozlovski, R.; Licharev, B.; Liebrecht, F.; Mansuy, H., 1–3; Meyer, H. L. F., 2; Pæckelmann, W.; Pirsson, L. V., 3; Pruvost, P., 5; Schmidt, W. E.
Spiriferina. — Diener, C.; Kozlovski, R.; Licharev, B.; Mansuy, H., 1 & 2; Meyer, H. L. F., 2; Smith, J. P.
Spirigena & *Spirochrysalis.*—Tommasi, A.
Spiroclypeus.—Rutten, L., 2.
Spirocyclina.—Jukovski, E.
Spiropteris. — Goldschmidt, V. M.; Kidston, R.
Spirorbis Limestone, Warwickshire. — Barrow, G.
Spirulæa.—Etheridge, R., *fil.*
Spisula.—Dickerson, R. E., 2.
Spiti Shales.—Holdhaus, K.
Spitsbergen. — Berr, R.; Böhm, J.; Holtedahl, O., 1 & 2; Mainka, C.; Meinardus, W.; Nathorst, A. G., 4; Philipp, H., 6; Rempp, G., 1 & 2; Sieberg, A., 6; Wiman, C., 2.
Spodumene.—Scully, G. C.
Spondiæcarpum.—Menzel, P.
Spondylus.—Jukovski, E.; Smith, W. D.
Sponges.—*See* Porifera.
Spongiostroma.—Garwood, E. J.; Rothpletz, A.
Springs, Creuse.—Cluzet, —.
——, Dalmatia.—Kerner, F. von.
——, Stettin.—Linstow, O. von.
——, Victoria.—Skeats, E. W.
—— (manganiferous), Vosges. — Jadin, F., 1 & 2.
——, Worcestershire.—Wickham, W.
——, carbonic acid in.—Pfaff, F. W., 2.
——, radioactive.—Boyle, R. W.
——. *See also* Thermal springs.
Spyrostylus.—Tommasi, A.
Squantam (Mass.).—Sayles, R. W.
Sseim R. (Russia).—Chirvinski, P.
Staffordshire. — Arber, E. A. N., 6; Beasley, H. C., 4; Cantrill, T. C.; Clark, F. B.; Forrest, N.; Kay, H.; Kidston, R.; King, W. W.; Meachem, F. G.
Stake Well (W. Australia).—Woodward, H. P., 8.
Stalactites, pseudo-.—Liesegang, R. E., 2.
Standing-Rock Indian Reservation (Dakota).—Calvert, W. R.
Stanley R. (Tasmania).—Waterhouse, L. L.
Stanthorpe (Queensland).—Saint-Smith, E. C., 4 & 5.
Stassfurt (Prussia).—Rozsa, M.
Staten I. (N.Y.).—Crosby, W. O.
Stauranderaster.—Spencer, W. K.
Staurocephalus.—Reed, F. R. C., 4.
Staurolite.—Van Horn, F. R., 1 & 3.
Staurolite - garnet - mica - schist, Liau-Tung.—Oyu, M.
STEENSTRUP, K. J. V., *Obit.* — *See* Anon., 33; Wandel, C. F.
Steganoblastus.—Bather, F. A., 6.
Stegocephalia.—Broom, R., 9.
Stegomus.—Huene, F. von, 6.
Stegosaurus.—Huene, F. von, 9.
Steiglitz (Victoria).—Hall, T. S.
Steinheim (Württemberg).—Kranz, W., 2.

Steinmannia.—Mansuy, H., 2.
Stellaster.—Spencer, W. K., 2.
Stellenbosch (Cape Province).—Shand, S. J., 2.
Stelleroidea, Palæozoic.—Schuchert, C.
Stenaster.—Spencer, W. K., 2.
Stenomphalus.—Bucher, W.; Harmer, F. W.
Stenomylacris.—Pruvost, P., 6.
Stenopteris.—Mercenier, M.
Stenurothrips.—Bagnall, R. S.
Stephanites.—Diener, C.
Stephanocosmia.—Cossmann, A. E. M.; Dareste de la Chavanne, J.
Stephens, T., *Obit.—See* Anon., 34.
Sterculia.—Kristofovič, A., 2.
Stereotoxodon.—Rovereto, G., 4.
Stettin (Pomerania).—Linstow, O. von; Philipp, H., 2.
Stettin Sand, Germany.—Linstow, O. von, 2.
Stethacanthus.—Hussakof, L.
Stigmaria.—Nathorst, A. G., 4.
Stirlingshire.—Gregory, J. W.; Macnair, P.
Stockerau (Lr. Austria).—Götzinger, G.
Stockingford Shales, Warwickshire.—Illing, V. C., 1–3.
Stokes method in mineralogy.—Allen, E. T.
Stone, crystalline cohesion of.—Anon., 60.
——, technology of.—Elsden, J. V.
Stone (Worcestershire).—Cantrill, T. C., 3.
Stone, Sir John B., *Obit.—See* Anon., 35.
Stones, prehistoric boiling-.—Cantrill, T. C., 2.
——, wind-worn.—Raw, F.
Storeton (Cheshire).—Beasley, H. C., 1 & 2.
Stormberg Beds, South Africa.—Du Toit, A. L.
Stornoway (Lewis I.).—Stevens, A.
Stort Valley (Essex).—Irving, A., 3.
Strathcona, Lord., *Obit.—See* Strahan, A., 2.
Stream-courses, Black Country Plateau.—Kay, H.
Streblopteria.—Mansuy, H., 2.
Streptorhynchus.—Mansuy, H., 3; Meyer, H. L. F., 2.
Striactæonina.—Dareste de la Chavanne, J.
Striation.—Clarke, W. G.
Strickland's collection of fossils & rocks.—Reed, F. R. C., 3.
Striegau (Silesia).—Guerich, G.
Stringocephalus Limestone, Germany.—Pæckelmann, W.
——, ——, Hunan.—Frech, F., 2.
Strobilites.—Berry, E. W., 5.
Stromatocystites.—Schuchert, C., 8.
Strombus.—Stefani, C. de.
Strophalosia.—Licharev, B.
Stropheodonta.—Fuchs, A.; Quiring, H., 2.
Strophodus.—Bryant, H. C., 2.
Strophomena.—Foerste, A. F.; Mansuy, H.
Strophomenidæ.—Quiring, H., 2.
Struthio.—Huene, F. von, 7.
Stubbenkammer (Rügen).—Jækel, O., 5.
Stugun (Sweden).—Carlzon, C., 1 & 2; Högbom, A. G.
Stygina.—Reed, F. R. C., 4.
Stylastræa.—Meyer, H. L. F., 2.
Stylocœnia.—Andrée, K., 3.
Styracopterus.—Traquair, R. H., 2.
Styria.—Benesch, F. von; Folgner, R.; Gaulhofer, K.; Geyer, G.; Hahn, F. F.; Heritsch, F., 2; Hilber, V., 1–3; Jæger, R.; Kittl, E.; Mohr, H.; Sigmund, A.; Stücker, N.; Teppner, W., 1 & 2; Winkler, A., 1–3 & 5.
Sub-Crag flints.—*See* Flints.
Sub-lacustrine glacial erosion.—Davis, W. M., 2.
Subiaschi (Piedmont).—Roccati, A., 2.
Submarine earth-movements.—Launay, L. de, 2.
Submergence, North American Pleistocene.—Fairchild, H. L.
Subsigillaria.—Mercenier, M.
Succinea.—Harmer, F. W.
Sudbury (Ontario).—Howe, E., 2; Krusch, P., 3.
Sudbury (Suffolk).—Davies, G. M.; Hill, E., 2.
Sudbury Series, Canada.—Coleman, A. P.
Sudry, L., *Obit.—See* Lebailly, C.
Suess, E., *Obit.—See* Anon., 36; Böhm, A. von; Gregory, J. W., 7; Hobbs, W. H., 4; Judd, J. W., 4; Karpinskii, A. P., 2; Parona, C. F.; Schuchert, C., 4; Termier, P., 3.
Suez (Egypt).—Douvillé, H., 4.
Suffolk.—Boswell, P. G. H., 1 & 2; Davies, G. M.; Hill, E., 2; Hinton, M. A. C.; Moir, J. R., 2 & 4.
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Sulphides, enrichment of.—Rogers, A. F., 2; Nishihara, G. S.; Tolman, C. F., *fil.*; Turner, H. W., 2.
Sulphides (copper), in electrolytic & colloidal solutions.—Tolman, C. F., *fil.*
Sulphides, manganese and.—Nishihara, G. S., 2.
——, pyrrhotite and.—Thompson, A. P.
——, simultaneous crystallization of.—Merwin, H. E.
Sulphohalite.—Gale, H. S., 8.
Sulphur, Wyoming.—Hewett, D. F., 2.
——, X-ray spectra of.—Bragg, W. H., 4.
Sulphur-Spring Valley (Arizona).—Meinzer, O. E., 2.
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Sun R. (Montana).—Powers, S.
Sunset Mine (B.C.).—Le Roy, O. E.

Superior (Arizona).—Ransome, F. L.
Superior, Lake (N. Am.).—Collins, W. H., 2; Geijer, P.; Leith, C. K., 2; Machatschek, F., 2.
Surcula.—Dickerson, R. E., 2.
Surface-water, Alaska.—Porter, E. A.
—— ——, California.—Wood, B. D.
—— ——, Colorado River Basin.—Follansbee, R., 2.
—— ——, Gulf of Mexico.—Hall, M. R.; Hall, W. E.
—— ——, Mississippi River Basin.—Follansbee, R.
—— ——, Ohio River Basin.—Horton, A. H., 1 & 2.
—— ——, St. Lawrence River Basin.—Covert, C. C.
—— ——, South Atlantic Coast (U.S.A.).—Hall, M. R.; Hall, W. E.
—— ——. *See also* Water.
Surrey.—Davies, G. M.; Withers, T. H., 2.
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Sutherland.—Crampton, C. B.
Sutton (Ontario).—Johnston, W. A.
Swanscombe (Kent).—Dewey, H.; Smith, R. A., 2.
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Switzerland.—Kœnigsberger, J., 2; Muehlberg, F.; Sarasin, C.
——, Upper Jurassic of.—Salfeld, H., 3.
——, bibliography of.—Gogarten, E.
——. *See also* Uri, *&c.*
Sycocrinus.—Bather, F. A., 4 & 7.
Syenite, Bohemia.—Michel, H.
——, Congo-Belge.—Ledoux, A., 2.
——, Moravia.—Hackl, O.
——, New York.—Miller, W. J., 2.
——, Quebec.—O'Neill, J. J.
——, Saxony.—Nacken, R.
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Symplesite.—Tyrrell, J. B., 3.
Syngenite.—Schreiber, H.
Synocladia.—Mansuy, H., 2.
Syracuse (N.Y.).—Hopkins, T. C.
Syringopora.—Mansuy, H., 1 & 3.
Szeben (Hungary).—Liffa, A.
Szechuan (China).—Deprat, J., 10.

Tachyglossus.—Glauert, L.
Tachylyte.—Shand, S. J., 4.
Taconic Mts. (Vermont).—Keith, A.
Tagish Lake (Yukon).—Tyrrell, J. B., 3.
Talc.—Julien, A. A., 2; Redlich, K. A.; Roccati, A., 2.
——, South Australia.—Ward, L. K., 6.
——, Western Australia.—Simpson, E. S., 6.
Talc-chlorite rocks, Western Australia.—Feldtmann, F. R.
Tallent's Hill (Victoria).—Dunn, E. J., 5.
Talpa.—Freudenberg, W.
Taman Peninsula (Russia).—Gubkin, J. M., 2.
Tamleugh (Victoria).—Dunn, E. J., 8.
Tamniscus.—Licharev, B.
Tanana (Alaska).—Brooks, A. H.
Tancredia.—Douvillé, H.
Tapes.—Boghachev, V., 2.
Tapinocephalus.—Watson, D. M. S., 4.
Taranaki (N.Z.).—Watkins, A. E.
Tarentaise (Savoy).—Gignoux, M.; Pussenot, C.
Tarma (Peru).—Meyer, H. L. F., 2.
Tartagal (Argentina).—Carles, E. de.
Tasmania.—Chapman, F., 6; Dove, H. S.; Gilbert, C. J.; Hills, L.; Nœtling, F., 1–7; Petterd, W. F.; Scott, H. H.; Stephens, T., 1 & 2; Twelvetrees, W. H., 1 & 2; Ward, L. K.; Waterhouse, L. L.; *see also* TASMANIA.
Tauern (Austria).—Angerer, H.; Sander, B.
Taufkirchen (Upper Austria).—Dreger, J.
Tawite.—O'Neill, J. J.
Ta-yeh (China).—Weld, C. M.
Tayabas (Philippine Is.).—Pratt, W. E., 1, 3, & 4.
Taxodium.—Kristofović, A.; Menzel, P.
Tectonics, Saxony.—Pietsch, K., 3.
——, Scottish sea-lochs.—Gregory, J. W.
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——, experiments in.—Paulcke, W.
——, topography and.—Kayser, E., 4; Scott, I. D.
Teichaster.—Spencer, W. K.
Teinostoma.—Chapman, F., 13.
Tejon Formation, California.—Dickerson, R. E., 1 & 3.
Telangium.—Nathorst, A. G., 4.
Teleoceras.—Pilgrim, G. E.
Telephus.—Reed, F. R. C., 4.
Teliocrinus.—Wood, E.
Telleria.—Cossmann, A. E. M.
Tellina.—Dickerson, R. E., 2; Lotz, H.; Nelli, B.
Tellinomorpha.—Hind, W., 2.
Telmatodon.—Pilgrim, G. E.
Temiskamite.—Walker, T. L.
Temnocheilus.—Hind, W.

Temnoptychites.—Pavlov, A. P.
Temperature of Tertiary seas.—Lemoine, P., 4.
Temperature, underground.—Darton, N. H., 2; Kossmat, F., 3; Treubert, F.
Tenda (Piedmont).—Roccati, A.
Tendaguru Beds.—Hennig, E.; Zwierzycki, J.
Teneriffe (Canary Is.).—Perrett, F. A., 2.
Têng-yüeh (Yunnan).—Brown, J. C.; Burton, R. C.
Tennessee (U.S.A.).—Berry, E. W.; Burchard, E. F.; Stephenson, L. W., 2 & 3; Van Horn, F. R., 1 & 3; Whinery, S.
Te Puke (N.Z.).—Bartrum, J. A.
Terebra.—Chapman, F., 13; English, W. A.; Harmer, F. W.
Terebratella.—Cossmann, A. E. M.; Jeannet, A.
Terebratula.—Burwash, E. M.; Jeannet, A.; Nielsen, K. B.; Renz, C., 2 & 4; Smith, J. P.
Terebratulina.—Etheridge, R., *fil.*; Jukovski, E.
Terebripora.—Moutier, A.
Terminalia.—Berry, E. W., 5.
Terquemella.—Morellet, L.
Terra rossa, origin of.—Tucan, F., 5.
Terraces, Adour R.—Blayac, J.
——, Appalachians.—Barrell, J., 3.
——, Belgium.—Stevens, C.
——, Cape Province.—Shand, S. J., 2.
——, Delaware R.—Winchell, N. H., 3.
——, Drôme.—Lamothe, — de.
——, Lower Austria.—Grengg, R.
——, New Zealand.—Bartrum, J. A., 2.
Terrigenous deposits, Antarctic seas.—Pirie, J. H. H.
Tertiary, Algeria.—Jodot, P., 2.
——, Andes.—Willis, B., 2.
——, Aquitaine.—Dollfus, G. F.
——, Argentina.—Bodenbender, G. Rovereto, G., 4.
——, Basel.—Struebin, K.
——, Bavaria.—Broili, F., 2.
——, Berne.—Hummel, K., 2.
——, Bohemia.—Hibsch, J. E., 1 & 3.
——, Borneo.—Rutten, L.
——, British Columbia.—Clapp, C. H., 3; Le Roy, O. E.; Wilson, W. J.
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——, Burma.—Pascoe, E. H.
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——, Erzgebirge.—Michel, H., 3.
——, Finistère.—Barre, H. du L. de la.
——, German East Africa.—Hennig, E.
——, Hainault.—Cornet, J., 4.
——, Hanover.—Tietze, O.
——, Haute-Savoie.—Jukovski, E.
——, Hungary.—Posewitz, T., 2.
Tertiary, Italy.—Chelussi, I., 4.
——, Kansas.—Haworth, E.
——, Livradois Mts.—Glangeaud, P., 5.
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——, Moravia.—Oppenheim, P.
——, New Guinea.—Rutten, L., 2.
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——, Oregon, Washington, & Vancouver I.—Arnold, R., 2.
——, Paris Basin.—Dollfus, G. F., 5–7; Lacroix, A., 10; Lemoine, P., 4.
——, Pas-de-Calais.—Simon, A.
——, Queensland.—Ball, L. C.
——, Rhenish Bavaria.—Bucher, W.
——, Rhenish Prussia.—Fliegel, G.; Menzel, P.
——, Sardinia.—Deprat, J., 11.
——, Saxony.—Schmierer, T.
——, Shan States.—La Touche, T. H. D.
——, Silesia.—Quitzow, W.
——, Styria.—Benesch, F. von; Hilber, V., 3; Winkler, A., 3.
——, Toledo.—Mallada, L.
——, Transcaucasia.—Riabinin, A.
——, Transylvania.—Szádeczky, J. de.
——, Turin.—Chelussi, I.
——, Tuscany.—Borri, C.
——, Umbria.—Verri, A., 2.
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——, Utah.—Douglass, E.
——, Vienna Basin.—Schaffer, F. X., 2.
——, Western Australia.—Saint-Smith, E. C.
——, Yunnan.—Brown, J. C., 3.
Tertiary dolomites, origin of.—Jourdy, E.
Tertiary drainage, Eastern North America.—Grabau, A. W., 2.
Tertiary-Cretaceous boundary, North America.—Brown, B., 4; Knowlton, F. H., 2; Matthew, W. D., 2; Osborn, H. F., 7; Stanton, T. W.; Stephenson, L. W.
Tertre (Hainault).—Cornet, J., 2.
Testudo.—Bate, D. M. A.; Oswald, F.; Rovereto, G., 4.
Tetradium.—Raymond, P. E., 4.
Tetranickel-triarsenide.—Palmer, C., 2.
Tetrao.—Freudenberg, W.
Tetrapoda, skull-elements of.—Huene, F. von, 2.
Tetrastylus.—Rovereto, G., 4.
Texada I. (B.C.).—McConnell, R. G., 4.
Texas (U.S.A.).—Berry, E. W., 3; Case, E. C., 1 & 2; Dumble, E. T.; Gould, C. N., 2; Moore, E. S.; Phillips, W. B., 2; Udden, J. A.; Williston, S. W.
Textbooks, mineral chemistry.—Dœlter, C.
——, mineralogy.—Ledoux, A., 4.
——, palæontology.—Chapman, F., 2.
——, petrology.—Hatch, F. H., 4.

Thamnastræa.—Kranz, W.
Thanh-ba (Tongking).—Deprat, J., 4.
Thebes (Greece).—Eginitis, D.
Thecidium.—Nielsen, K. B.
Thecodontosaurus.—Huene, F. von, 8.
Thecostegites.—Mansuy, H.
Thedford (Ontario).—Williams, M. Y., 3.
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Thermal expansion of minerals & rocks. —Schulz, K.
Thermal springs, Baden.—Thürach, H.
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Thetford (Quebec).—Krusch, P., 3.
Thieu (Hainault).—Cornet, J.
Thiollierícrinus.—Jukovski, E.
Tholaster.—Spencer, W. K.
Tholeiite.—Schuster, M., 2.
Thompson R. Valley (B.C.).—Drysdale, C. W.
Thomsonite.—Riva, P.
Thoracostraca.—*See* Decapoda, *&c.*
Thorianite.—Lacroix, A., 7.
Thorium.—Holmes, A., 2.
Thrinax.—Berry, E. W., 5.
'Thufur,' Iceland.—Thoroddsen, T.
Thuringia (Germany).—MacCurdy, G. G., 4; Naumann, E.; Schöndorf, F., 3.
Thuringionautilus.—Diener, C.
Thyasira.—Nelli, B.
Thyrsoporella.—Morellet, L.
Thysanopeltis.—Richter, R.
Thysanotesta.—Nathorst, A. G., 4.
Thysville (Congo Belge).—Mathieu, F. F.
Tian-Shan (Turkestan).—Boghdanovich, C.; Krenkel, E.; Leuchs, K., 1 & 3.
TIBERG, H. V., *Obit.*—*See* Sjögren, H.
Ticino (Switzerland).—Escher, B. G.; Gutzwiller, E.
Tidal friction, ice-ages and.—Brooks, C. E. P.; Love, A. E. H.
Tierra del Fuego (S. America).—Quensel, P., 2.
Tigri (Morocco).—Gautier, E. F.
Tilaite.—Duparc, L., 8.
Tillite, Massachusetts.—Sayles, R. W.
——, Utah.—Hintze, F. F., *fil.*
Tiltoniceras.—Buckman, S. S.
Time.—*See* Geological time.
Timor (Indian Ocean).—Choffat, P., 5; Molengraaff, G. A. F.
Tin, Australia.—Anon., 48.
——, Canada.—Cartwright, C. T.
——, Congo Belge.—Ball, S. H.
——, India.—Anon., 46.
——, Japan.—Kato, T., 3.
——, Malay States.—Anon., 46; Jones, W. R.; Scrivenor, J. B., 2, 3, & 5.
——, Nigeria.—Anon., 48.
——, Queensland.—Saint-Smith, E. C., 4.
——, South Africa.—Anon., 48.
——, Swaziland.—Hall, A. L., 4.
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——, Transvaal.—McDonald, D. P., 6.
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Tinamisornis.—Rovereto, G., 4.
Tingis.—Cockerell, T. D. A.
Tinguaite.—O'Neill, J. J.
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Tionesta (Pennsylvania).—Wright, G. F., 2.
Tirolites.—Smith, J. P.; Toula, F.
Titaniferous iron-ore, Colorado.—Jennings, E. P.
Titaniferous magnetite, Montana.—Stebinger, E.
—— ——, microstructure of.—Singewald, J. T., *fil.*
Titanite.—Bianchi, A., 2; Hadding, A.
Titanosuchus.—Watson, D. M. S., 4.
Titanotheriidæ.—Osborn, H. F., 8.
Tobruk (Libya).—Migliorini, C. I.
Togoland.—Kœrt, W.
Toledo (Spain).—Mallada, L.
Tollia.—Pavlov, A. P.
Tonbridge (Kent).—Davies, G. M.; Handcock, E. W.
Tongking.—Deprat, J., 1–4, 7–9; Mansuy, H., 1 & 3; Pelourde, F.
Tongrian, Paris Basin.—Dollfus, G. F., 7; Lacroix, A., 10.
Tooele County (Utah).—Carpenter, E.
Toombon Mine (Gippsland).—Baragwanath, W., 3.
Topaz.—Laubmann, H., 2.
Topaz-bearing rocks, Malay States.—Scrivenor, J. B., 4.
Topography, influence of fractures on.—Scott, I. D.
——, mineral-deposits and.—Graham, K. M.
——, tectonics and.—Kayser, E., 4.
Torbay (Devon).—Jukes-Browne, A. J.
Toronto (Ontario).—Taylor, F. B., 4; Wolff, W., 2; Wright, G. F.
Torquay (Devon).—Jukes-Browne, A. J., 4.
Torrejon Formation, New Mexico.—Sinclair, W. J.
Torridonian, Ross-shire.—Peach, B. N., 2.
Tortugas (Florida).—Dole, R. B.; Vaughan, T. W., 2.
Tosa Province (Japan).—Yabe, H.
Tourmaline.—Duparc, L., 7; Lacroix, A., 4; Vernadsky, W., 2; Wittich, E.
Tourmaliniferous quartz-veins, Ontario. —Means, A. H.
Tournaisian, Belgium.—Andrimont, R. d'.
Tours d'Aï (Vaud).—Jeannet, A.
Toxodon.—Rovereto, G., 4.
Trachyandesite, Japan.—Kozu, S.
Trachyaster.—Spencer, W. K.
Trachybembix.—Tommasi, A.
Trachyceras.—Mansuy, H; Smith, J. P.

Trachydomia.—Mansuy, H., 2.
Trachynerita.—Tommasi, A.
Trachyphonolite, Rhön Mts.—Gachot, H.
Trachyte, German South-West Africa.—Rimann, E., 2.
——, Roxburghshire.—McRobert, R. W., Lady.
——, Styria.—Winkler, A., 2.
Trachyte-rocks, Slavonia.—Mauritz, B.
Trachytypotherium.—Rovereto, G., 4.
Trachodon.—Huene, F. von, 9; Lambe, L. M., 2.
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Tragophylloceras loscombi.—Spath, L. F.
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Tron-ninh (Indo-China).—Mansuy, H., 3.
Transcaucasia.—Boghachev, V.; Bonnet, P.; Riabinin, A.
Trans-Danubian District (Hungary).—Horusitzky, H.; Timko, E.
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Transvaal System.—Hall, A. L., 1 & 2; Humphrey, W. A., 3.
Transylvania.—Halavats, J. von; Hoffer, A.; Nopcsa, Baron F.; Roth von Telegd, L.; Szadeczky, J. de.
Trap-dyke, Central Provinces.—Fox, C. S.
TRAQUAIR, R. H., *Obit.*—*See* Horne, J.
TRAUBE, H., *Obit.*—*See* Anon., 37.
Traversella (Piedmont).—Colomba, L.; Delgrosso, M.
Travertine, Eifel.—Pohlig, H.
Trekh-Ostrovianskaia (Don Province).—Semikhatov, A. N.
Trelleborg (Sweden).—Westergård, A. H.
Tremacyllus.—Rovereto, G., 4.
Trematops.—Williston, S. W., 2.
Trematopygus.—Démoly, F.
Tremolite.—Roccati, A., 2.
Trent Basin, ice-flows in.—Deeley, R. M.
TRENTANOVE, G. M., *Obit.*—*See* Campana, D. del, 2.
Trenton Formation, Kentucky.—Foerste, A. F.
—— ——, Ontario & Quebec.—Raymond, P. E., 9.
Treptow a. Rega (Pomerania).—Schulte, L.
Tretospira.—Cossmann, A. E. M.; Dareste de la Chavanne, J.
Trias, Africa (Central).—Brückner, E., 2.
——, Algeria.—Savornin, J.
Trias, Alps (Eastern).—Geyer, G.
——, Alsace.—Bill, P. C.
——, America (North).—Smith, J. P.
——, Argentina.—Bodenbender, G.
——, Baden.—Deecke, W.
——, Bavaria.—Broili, F., 2; Krauss, H.
——, Bosnia.—Toula, F.
——, Bouches-du-Rhône.—Haug, E., 2.
——, British Columbia.—Bancroft, J. A.
——, Brunswick & Magdeburg.—Harbort, E.
——, California.—Bryant, H. C.
——, Carniola & Gorizia.—Kossmat, F., 3.
——, Congo Belge.—Passau, G.
——, Cumberland.—Gregory, J. W., 4.
——, Derbyshire.—Gibson, W.
——, Dutch East Indies.—Seidlitz, W. von.
——, Grisons.—Spitz, A.
——, Hungary.—Rozlozsnik, P.
——, Indo-China.—Deprat, J., 3 & 5.
——, Kashmir.—Diener, C.
——, Lombardy.—Tommasi, A.
——, Lorraine.—Nicklès, R.
——, Midlands.—Matley, C. A.
——, Morayshire.—Watson, D. M. S., 16.
——, New Jersey.—Hawkins, A. C.
——, New York.—Huene, F. von.
——, Nottinghamshire.—Carr, J. W.; Swinnerton, H. H.
——, Pennsylvania.—Hawkins, A. C.
——, Portugal.—Choffat, P., 2.
——, Rhenish Prussia.—Quaas, A.
——, Saxony.—Schmierer, T.
——, Simplon Tunnel.—Preiswerk, H., 1 & 2.
——, Spitsbergen.—Böhm, J.
——, Staffordshire.—Cantrill, T. C.
——, Styria.—Folgner, R.
—— Tongking.—Deprat, J., 9; Mansuy, H., 3.
——, Vaud.—Jeannet, A.
——, Vosges.—Handlirsch, A.
——, Worcestershire.—Cantrill, T. C., 3.
——, Yunnan.—Deprat, J., 5.
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Trias-Permian boundary, Hesse-Nassau.—Meyer, H. L. F.
Triassic arkose, fluorspar-cement in.—Hartmann, P.
Triasocaris.—Bill, P. C.
Triceratops.—Drevermann, F.; Huene, F. von, 9.
Tridacna.—Smith, W. D.
Triebsch (Bohemia).—Hibsch, J. E., 3.
Triglav (Carniola).—Kossmatt, F., 2.
Trigodon.—Rovereto, G., 4.
Trigonia.—Burwash, E. M.; Chapman, F., 13; Douvillé, H.; Holdhaus, K.
Trigonia Sandstone, Tosa Province.—Yabe, H.

Trigonocarpus.—Arber, E. A. N., 2 & 3; Carpentier, A., 2.
Trigonodus.—Diener, C.; Mansuy, H., 3.
Trigonosemus.—Etheridge, R., *fil.*
Trilobita.—Raymond, P. E., 5 & 8; Richter, R., 2.
——, Cambrian.—Burling, L. D., 2; Illing, V. C., 3; Nicholas, T. C., 2; Raymond, P. E., 7; Walcott, C. D., 1 & 2.
——, Carboniferous.—Mansuy, H., 1 & 3; Pruvost, P., 5.
——, Devonian.—Groth, J.; Pæckelmann, W.; Pruvost, P., 4; Richter, R.; Shand, S. J., 3.
——, Millstone Grit.—King, W. B. R.
——, Ordovician.—Foerste, A. F.; Mansuy, H.; Raymond, P. E., 2 & 3; Reed, F. R. C,, 2 & 4; Slocum, A. W.
——, Permo-Carboniferous.—Mansuy, H., 2.
——, Silurian.—Chapman, F., 8; Mansuy, H., 3.
Trimerorhachis.—Broom, R., 9; Williston, S. W., 2 & 3.
Trinacromerum.—Williston, S. W., 3.
Trinidad (B.W.I.).—Cadman, J.; Maury, C. J.
Trinity Bay (Newfoundland).—Dale, N. C.
Trinucleus.—Mansuy, H.; Reed, F. R. C., 2 & 4.
Trionyx.—Teppner, W., 2 & 3.
Tripoli (North Africa).—Bernet, E.; Crema, C., 3; Gregorio, A. de; Stefani, C. de; Stella, A.
Tripterospermum.—Kidston, R.
Triquetra.—Douvillé, H.
Tristomanthus.—Lambert, J., 3.
Triton & *Trivia*.—Harmer, F. W.
Tritonidea.—Smith, W. D.
Tritonium.—Dickerson, R. E., 2.
Tritonofusus.—Martin, B.
Trochocyathus.—Nelli, B.
Trochotoma & *Trochus*.—Jukovski, E.
Trogontherium.—Hinton, M. A. C.
Trogontherium Bed, Rhenish Prussia.—Pohlig, H., 2.
'Tronattas.'—Nœtling, F., 1, 2, & 6.
Trondhjem (Norway).—Vogt, J. H. L.
Trophon.—Harmer, F. W.
Tropidocoryphe.—Richter, R.
Tropidoleptus.—Clarke, J. M.
Tropidophora.—Oswald, F.
Tropigastrites.—Smith, J. P.
Tropites.—Mansuy, H.
Trypanostylus.—Tommasi, A.
Tryssil (Norway).—Reusch, H.
Tsinania.—Walcott, C. D., 2.
Tsuga.—Menzel, P.
Tsuzuragahayama Mine (Japan).—Kato, T.
Tubipora.—Lotz, H.
Tubulostium.—Etheridge, R., *fil.*; Stefani, C. de.
Tuchla (Hungary).—Posewitz, T., 2.
Tuckanarra (W. Australia).—Woodward, H. P., 5.
Tudicla.—Stefani, C. de.
Tuffs, Campania.—Galdieri, A., 3.
——, Latium.—Meli, R.
Tulameen (B.C.).—Camsell, C., 2.
Tumby Bay (S. Australia).—Ward, L. K., 6.
Tumkur (Mysore).—Sen, A. M.
Tungsten, Canada.—Cartwright, C. T.; *see also* CANADA, Department of Mines.
——, Tasmania.—Twelvetrees, W. H.
Tunis.—Gregorio, A. de, 4; Joleaud, L., 4; King, P.; Oppenheim, P., 2; Thomas, P.
Tupinambis.—Rovereto, G., 4.
Turbinella.—Smith, W. D.
Turbo.—Jukovski, E.; Pæckelmann, W.; Tommasi, A.
Turbonilla.—Chapman, F., 13.
Turdus.—Freudenberg, W.
Turin (Italy).—Chelussi, I.
Turin papyrus mine-plan.—Ferrar, H. T.
Turkestan.—Boghdanovich, C.; Krenkel, E.; Leuchs, K.; Mushketov, D. I.
Turquoise.—Wittich, E.
Turricula.—Smith, W. D.
Turrilepas.—Moberg, J. C.
Turris.—Dickerson, R. E., 2; English, W. A.; Smith, W. D.
Turritella.—Burwash, E. M.; Dickerson, R. E., 2; Lotz, H.; Smith, W. D.; Stefani, C. de.
Tuscany (Italy).—Achiardi, G. d'; Borri, C; Braun, G.; Campana, D. del; Castro, C. de; Onetti, A.; Stefani, C. de, 4; Symons, B.
Tylaster.—Spencer, W. K.
Typhacites.—Stopes, M. C.
Typotherium.—Rovereto, G., 4.
Tyrannosaurus.—Osborn, H. F., 3.
Tyrol (Austria).—Ampferer, O.; Angerer, H.; Götzinger, G., 2; Hahn, F. F.; Kittl, E.; Klebelsberg, R. von, 1 & 4; Meusburger, K.; Schwinner, R.
Tyrsœcus.—Cossmann, A. E. M.

Uinta Formation, Utah.—Douglass, E.
Ulloma (Bolivia).—Sefve, I.
Umbonium.—Tommasi, A.
Umbria (Italy).—Canavari, I.; Lotti, B.; Verri, A., 2.
Ummendorf (Saxony).—Schmierer, T., 2.
Umptekite.—Quensel, P., 3.
Umzimkulu (Cape Province).—Du Toit, A. L.
Unaweep (Colorado).—Butler, B. S.
Uncinulus.—Mansuy, H., 2.

Unconformities, Narragansett Basin.—Loughlin, G. F., 2.
——, New Zealand.—Morgan, P. G., 5.
——, pre-Cambrian.—Sederholm, J. J.
——, Vermont pre-Cambrian. — Keith, A., 3.
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Undularia. — Cossmann, A. E. M.; Tommasi, A.
Unio.—Boghachev, V.; Douvillé, H.; Haas, F., 2; Troxell, E. L.
Union Formation, Nova Scotia.—Hyde, J. E.
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Unionidæ.—Haas, F., 2.
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—— —— (South-Eastern), Eocene flora of.—Berry, E. W., 4.
—— —— (Connecticut & Hudson Valleys), marine submergence of.—Fairchild, H. L.
—— —— (Great Basin), fossil horses from.—Merriam, J. C., 2.
—— —— (——) saline deposits.—Gale, H. S.
—— —— (——), Tertiary of. — Merriam, J. C., 6.
—— —— (Great Plains) ground-water. Schwennesen, A. T.
—— —— (——), volcanic ash in. — Gould, C. N., 3.
—— —— (Mid-Continent Field), petroleum & natural gas in.—Gould, C. N.
—— —— (Gulf Coastal Plain), Cretaceous-Eocene contact in.—Stephenson, L. W.
—— —— (——), pioneers in geology of.—Smith, E. A.
—— —— (——), Pliocene fauna of. —Dall, W. H.
—— —— (North Pacific Coast), marine Tertiary of.—Arnold, R., 2.
—— —— (——), water.—Wood, B. D., 2.
—— —— (South Atlantic Coast), surface-water.—Hall, M. R.; Hall, W. E.; Wood, B. D., 3.
Unterwalden (Switzerland). — Arbenz, P., 3; Buxtorf, A.
Upminster (Essex).—Davies, G. M.
Uptonia.—Buckman, S. S.
Ural Mts. (Russia).—Chernov, A. A.; Duparc, L., 3, 7, & 8; Kristofovič, A., 2; Purington, C. W.; Tikhonovich, N. N.; Turner, H. W.; Viskont, K.
Uranium, Madagascar.—Grossmann, C.
——, South Australia.—Ward, L. K., 2.
——, United States.—Anon., 62.
——, Western Australia.—Simpson, E. S.
Uri (Switzerland).—Arbenz, P.
Urirothstock (Switzerland). — Arbenz, P.
Uromastix.—Watson, D. M. S., 9.
Urosalpinx.—Harmer, F. W.
Ursus.—Campana, D. del, 3; Freudenberg, W.; Hopkins, T. C.
Uruguay.—Walther, K.
Ussingite.—Böggild, O. B., 1 & 2.
Utah (U.S.A.).—Butler, B. S., 2; Carpenter, E.; Douglass, E.; Hess, F. L., 1 & 2; Hintze, F. F., *fil.*; Loughlin, G. F.; Petersen, W.; Van Horn, F. R., 2; Woodruff, E. G., 2.
Uteria.—Morellet, L.
Utica Formation, Ottawa.—Wilson, A. E.
Utrecht (Natal).—Humphrey, W. A.
Uvanite.—Hess, F. L., 2.
Uvigerina.—Franke, A.
Uwet meteorite.—Prior, G. T.

Vaginulina.—Sherlock, R. L.
Valais (Switzerland). — Hezner, L.; Preiswerk, H., 2.
Valanginian, Algeria.—Joleaud, L., 3.
Valdes Peninsula (Patagonia). — Rovereto, G., 2.
Valence (Drôme).—Lamothe, — de.
Valencia (Spain).—Aravaca, M. A.
Valenciennes (Nord).— Carpentier, A., 1 & 2.
Valentina (Carnic Alps).—Vinassa de Regny, P.
Valletia.—Jukovski, E.
Valleys, Alpine Glacial.—Martonne, E. de.
——, pre-Glacial, Norway. — Vogt, J. H. L.
——, formation of.—Kayser, E., 4.
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Vallonia.—Harmer, F. W.
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Vancouver (B.C.).—Arnold, R.; Bowen, N. L., 2; Clapp, C. H., 4; McConnell, R. G., 5; Wolff, W., 2.
Van-yên (Tongking).—Deprat, J., 4.

Var (France).—Bigot, A., 4; Haug, E.; Lanquine, A.; Lutaud, L., 1 & 2; Repelin, J., 3 & 4.
Var R. (Alpes Maritimes).—Bertrand, L., 5.
Varanosaurus.—Broili, F.; Williston, S. W., 2.
Varanosaurus acutirostris.—Watson, D. M. S., 8.
Vardussia (Greece).—Renz, C., 4.
Vaud (Switzerland).—Bonard, A.; Jeannet, A.
Veins, Ontario.—Means, A. H.
Vendée (France).—Baudouin, M., 1 & 2.
Venericardia.—Douvillé, H.
Venetia (Italy).—Boyer, G.; Klinghardt, F.; Kranz, W.; Levi, G.; Sacco, F., 2.
Venezuela.—Bendrat, T. A.
Venilcardia.—Rollier, L.
Ventura County (California).—Gale, H. S., 6.
Venus.—Dickerson, R. E., 2; Smith, W. D.
Verespatak (Hungary).—Lazar, B.
Vermetus.—Smith, W. D.
Vermiporella.—Rothpletz, A.
Vermont (U.S.A.).—Keith, A., 1 & 3.
Vertebraria.—Seward, A. C., 4.
Vesdre Massif (Liége).—Renier, A.
Vespertilio.—Freudenberg, W.
Vesteraalen (Norway).—Vogt, T.
Vesuvius (Italy).—Cuccia, L.; Fiore, O. de; Judd, J. W., 2; Malladra, A.; Mercalli, G., 1 & 2; Storz, M.; Zambonini, F.
Vetacapsula.—Moysey, L.
Vevais (Brandenburg).—Korn, J., 3.
Vicarya.—Smith, W. D.
Vicdessos (Ariège).—Longchambon, M., 5.
Vichy (Allier).—Bardet, G.
Vico Equense (Naples).—Galdieri, A., 3.
Victoria.—Baragwanath, W., 1–4; Chapman, F., 1, 5, 8–10, 12, & 13; Dunn, E. J., 1–15; Fenner, C.; Ferguson, W. H.; Hall, T. S., 1 & 2; Herman, H.; Howitt, A. M.; Mahony, D. J.; Morris, M.; Murray, R. A. F.; Skeats, E. W., 1 & 2; Summers, H. S.; Whitelaw, H. S., 1 & 2; *see also* VICTORIA.
Victoria, Grand Lake (Quebec).—Wilson, M. E., 2.
Victoria Nyanza (Africa).—Barnitzke, J. E.; Oswald, F.
Vielsalm (Luxemburg).—Anten, J., 2.
Vienna (Austria).—Götzinger, G., 3; Schlesinger, G.
Vienna Basin (Austria).—Schaffer, F. X., 2.
Vievola (Piedmont).—Roccati, A.
Vigny (Seine-et-Oise).—Lemoine, P.
Villeneuve (Vaud).—Bonard, A.
Villeneuve-sur-Lot (Lot-et-Garonne).—Harlé, E., 2.
Villers-sur-Mer (Calvados).—Douvillé, R., 3.
Vinelloidea.—Canu, F., 4.
Virginia (U.S.A.).—Stose, G. W.; Watson, T. L., 2 & 3; White, I. C., 2.
Viscaccia.—Rovereto, G., 4.
Visegrad (Hungary).—Strömpl, G.
Vishnuites.—Diener, C.
Visnea.—Menzel, P.
Vit Sandstone.—Guébhard, A.
Viterbo (Latium).—Meli, R.
Viticocarpum.—Menzel, P.
Vitrival (Hainault).—Malaise, C.
Vivipara.—Harmer, F. W.
Vizcaya (Spain).—Galvez-Cañero, A. de.
Vœlckerite.—Rogers, A. F., 3.
Vogesite.—Cross, W., 3.
Vola.—Jaworski, E., 3.
Volaia (Carnic Alps).—Vinassa de Regny, P.
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—— ——, Eifel.—Ledoux, A.
—— ——, Styria.—Winkler, A., 1 & 5.
Volcanic eruptions, California.—Diller, J. S., 3.
—— ——, Etna.—Ponte, G., 2.
—— ——, Teneriffe.—Perret, F. A., 2.
—— ——, age of Crimean.—Chirvinski, P. N., 2.
—— ——, causes of.—Karmin, W.
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—— neck, Victoria.—Ferguson, W. H.
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Volcanic rocks, Auvergne.—Glangeaud, P.
—— ——, New York.—Cushing, H. P.
—— ——, Rhön Mts.—Gachot, H.
—— ——, South Shetland Is.—Gourdon, E.
—— ——, Yunnan.—Burton, R. C.
Volcanoes.—Friend, J. N.
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——, British Columbia.—Burwash, E. M., 2.
——, Etna.—Ponte, G., 2.
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——, Sakurajima.—Nishio, K.; Omori, F., 4; Sieberg, A., 4.
——, Vesuvius.—Fiore, O. de; Judd, J. W., 2; Mercalli, G., 1 & 2; Storz, M.
——, Yunnan.—Brown, J. C.
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Volga R. (Russia).—Khimenkov, V.; Semikhatov, A. N., 2.
Voltaite.—Scharizer, R.
Voltzia Sandstone, Alsace.—Bill, P. C.
Voluta.—Harmer, F. W.; Smith, W. D.; Stefani, C. de.
Volutopsis.—Harmer, F. W.; Martin, B.
Vosges.—Jadin, F.; Handlirsch, A.; Seidlitz, W. von, 2.
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Vulcanology.—Friedlænder, I.
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Waihi (N.Z.).—Bell, J. M.
Waipara R. (N.Z.).—Speight, R., 2.
Wakkerstroom (Transvaal).—Humphrey, W. A.
Walchen, Lake (Bavaria).—Klebelsberg, R. von, 2.
Waldheimia.—Krauss, H.; Renz, C., 4; Vadasz, M. E.
Waldviertel (Lr. Austria).—Becke, F., 2 & 3.
Wales, pre-Cambrian of.—Strahan, A., 4.
Walhalla district (Victoria).—Baragwanath, W., 3 & 4.
Wallace (Idaho).—Calkins, F. C.
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Wankie Coalfield (S. Rhodesia).—Lightfoot, B.
Warlingham (Surrey).—Davies, G. M.
Warrandyte (Victoria).—Chapman, F., 9; Mahony, D. J.
Warren (Pennsylvania).—Wright, G. F., 2.
Warren County (N.Y.).—Miller, W. J., 4.
Warwickshire.—Barrow, G.; Coleby, H. J.; Illing, V. C., 1–3; Kay, H.; Lapworth, C.; Meachem, F. G.; Simpson, C. A.; Walford, E. A.; Wills, L. J.
Wasatch Mts. (Utah).—Hintze, F. F., *fil.*
Waschberg (Lr. Austria).—Götzinger, G.
Washington (U.S.A.).—Arnold R., 2; Bancroft, H.; Collier, A. J.; Landes, H.; Lupton, C. T.; Matthes, F. E.; Shedd, S.; Weaver, C. E.; Winchell, H. V.
Washington County (Maine).—Williams, H. S.
Washington, Mt. (New Hampshire).—Goldthwait, J. W.
Watchet (Somerset).—Evans, J. W., 4.
Water, Arizona.—Meinzer, O. E., 2.
——, Alessandria.—Crema, C., 2.
——, Australia.—Anon., 53; Pittman, E. F.
——, Beauce.—Dollfus, G. F., 4.
——, Belgium.—Andrimont, R. d'.
——, Berne.—Martel, E. A.
——, British Guiana.—Harrison, J. B., 1 & 2.
——, Calvados.—Bigot, A., 6.
——, Durham.—Prest, J. J.
——, Egypt.—Beadnell, H. J. L.
——, Etna.—Ponte, G.
——, Florida.—Matson, G. C.
——, German East Africa & German South-West Africa.—Kœrt, W.
——, Gloucestershire.—Hibbert, T.
——, Granada.—Lozano, R. S., 2.
——, Gulf of Mexico.—Wood, B. D., 3.
——, Jersey.—Jenkins, A. J.
——, Jura Mts.—Fournier, E., 3.
——, Kansas.—Haworth, E.; Meinzer, O. E.; Young, C. C.
——, Karawanken Tunnel.—John, C. von.
——, Kent.—Finch, W. C.
——, London area.—*See* LONDON, Metropolitan Water Board.
——, New Mexico.—Darton, N. H., 5.
——, Nord.—Brégi, L.; Pagniez, —, 2 & 3.
——, Nottinghamshire.—Lamplugh, G. W., 3.
——, Oklahoma.—Schwennesen, A. T., 1 & 2.
——, Silesia.—Michael, R.
——, Sweden.—Hedström, H.
——, Togoland.—Kœrt, W.
——, United States (Great Plains).—Schwennesen, A. T.

Water, United States (North Pacific Coast).—Wood, B. D., 2.
——, —— —— (South Atlantic Coast).—Wood, B. D., 3.
——, Utah.—Carpenter, E.
——, Valencia.—Aravaca, M. A.
——, Venetia.—Sacco, F., 2.
——, Warwickshire.—Coleby, H. J.
——, Wochein Tunnel.—Kossmat, F., 3.
——, Worcestershire.—Duncan, C. C.
——, Yorkshire.—Kendall, P. F.
Water, circulation of underground.—Versluys, J.
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——, composition of mine-.—Lane, A. C., 1.
——, infiltration.—Duparc, L., 4.
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——, underground.—Kemp, J. F., 4; Rector, F. L.
——, volcanic activity and.—Day, A. L., 3.
Water-levels, Neogene variations of.—Schaffer, F. X., 2.
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Waterberg System.—Humphrey, W. A., 3.
Watheroo (W. Australia).—Woodward, H. P.
Waucedah (Michigan).—Allen, R. C.
Wayne County (Kentucky).—Munn, M. J., 3.
Wayne County (Ohio).—Hubbard, G. D.
Weald.—Davies, G. M.
Wealden, Hainault.—Cornet, J.
Wealden floras.—Seward, A. C., 3.
Weathering, frost.—Högbom, B., 3.
——, polygonal.—Thoroddsen, T.
Weaverville (California).—Diller, J. S.; Ferguson, H. G.
Wechsel Mt. (Austria).—Mohr, H.
Weddell Sea, deposits from.—Pirie, J. H. H.
Wedel (Schleswig-Holstein).—Wolff, W.
Wellington (N.Z.).—Cotton, C. A., 3.
Wells, Egypt.—Beadnell, H. J. L.
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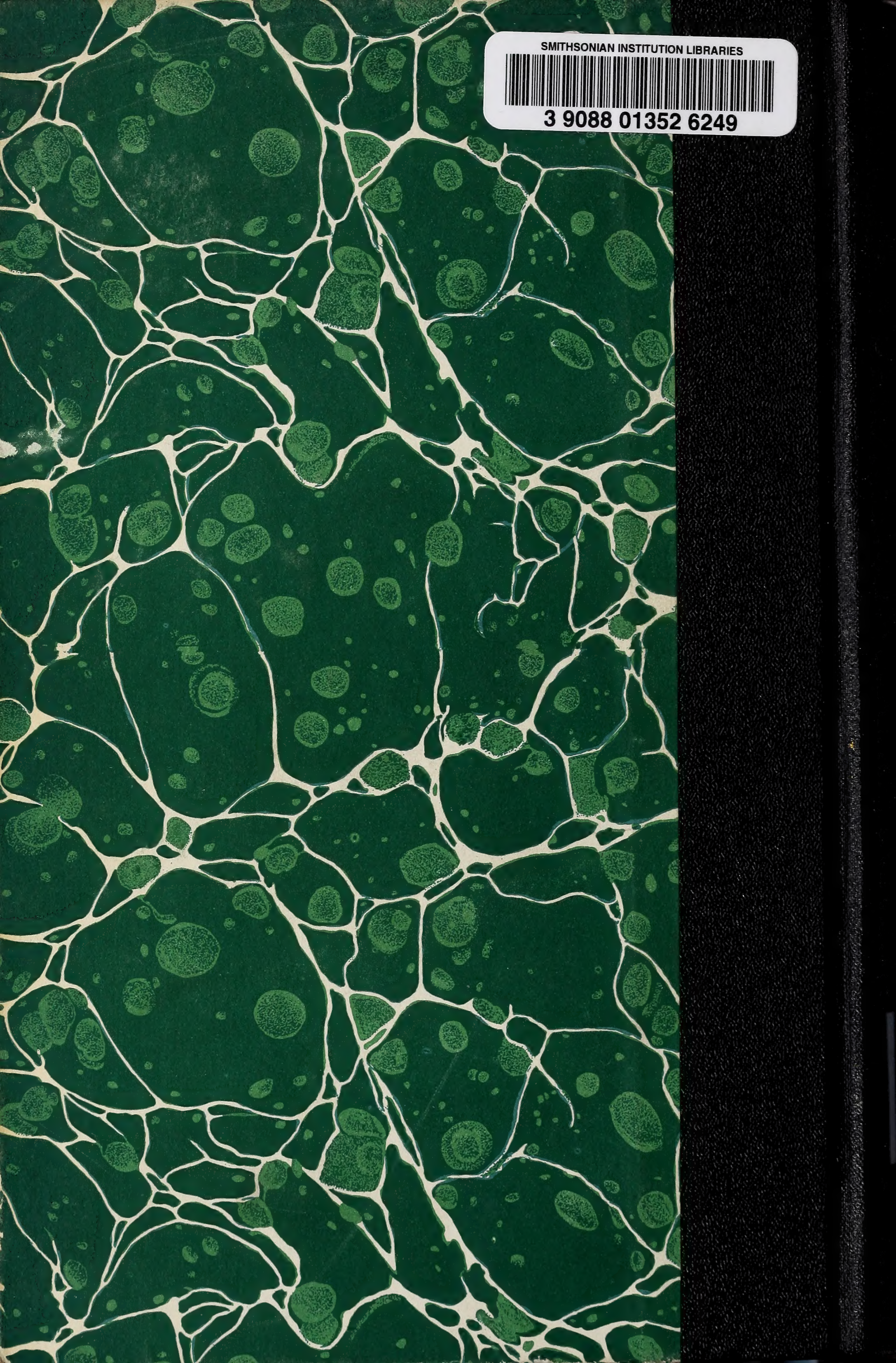

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